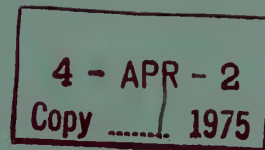


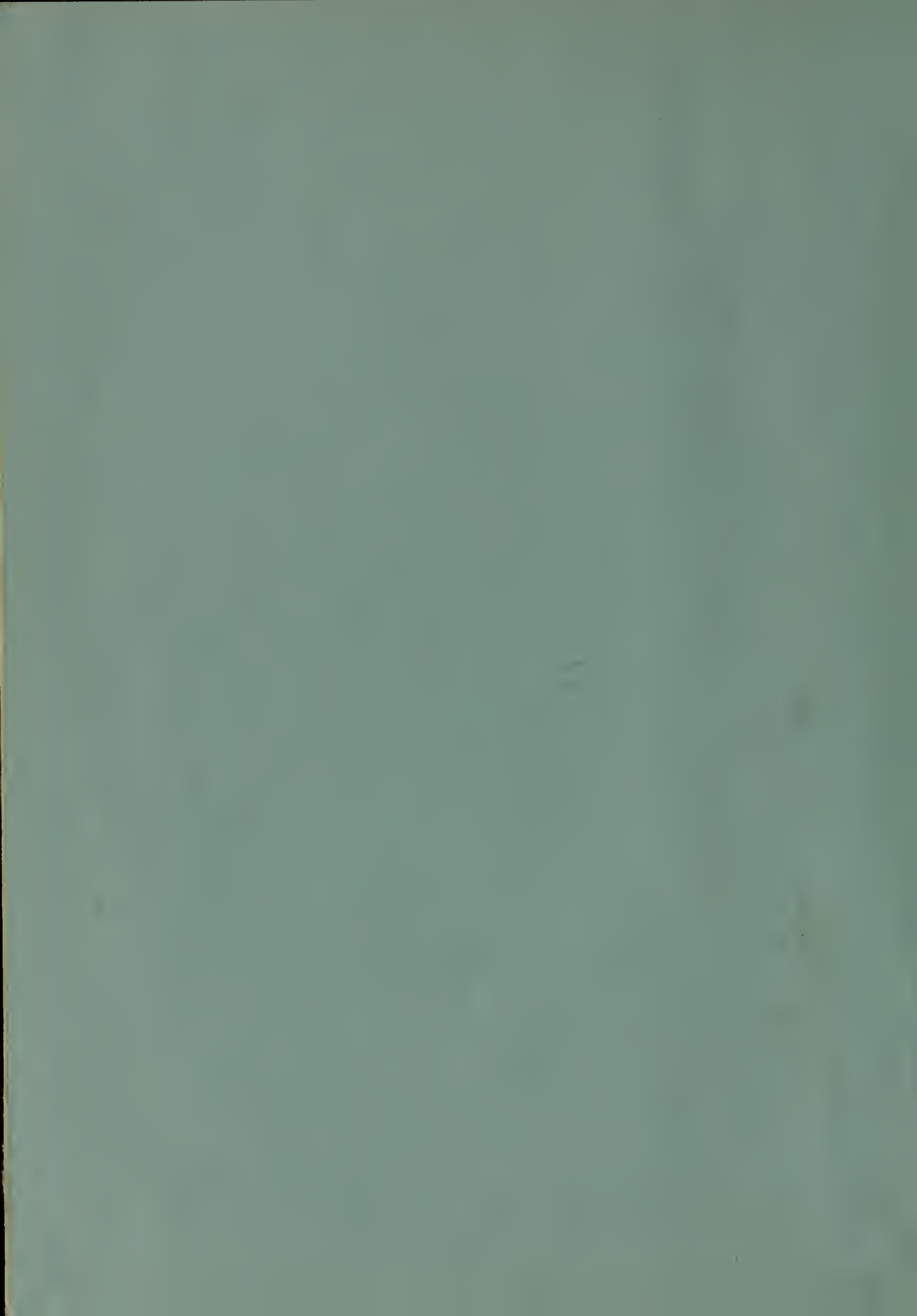
MESA Informational Report/1975



Injury Experience in Quarrying, 1970-71



UNITED STATES DEPARTMENT OF THE INTERIOR
Mining Enforcement and Safety Administration
Washington, D. C. 20240



Informational Report 1007

Injury Experience in Quarrying, 1970-71

By Staff, Branch of Recurring Reports

Health and Safety Analysis Center, Denver, Colo.



UNITED STATES DEPARTMENT OF THE INTERIOR

Rogers C. B. Morton, Secretary

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CONTENTS

	<u>Page</u>
Abstract.....	1
Introduction.....	1
Acknowledgments.....	1
Scope of statistics.....	2
Definition of terms.....	2
Historical injury experience in the quarrying industry.....	6
General injury experience.....	7
Appendix A.--Tables for 1970.....	12
Appendix B.--Tables for 1971.....	85
Appendix C.--Questionnaire used.....	158

ILLUSTRATION

1. Chart of scheduled charges for loss or loss of use involving hand or foot.....	9
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TABLES

1. Scale of time charges for weighting deaths, permanent total disabilities, and permanent partial disabilities for computing severity of injuries.....	8
2. Salient statistics on injuries, injury rates, and worktime data on stone quarries and mills in the United States, 1967-71.....	10
3. Injury experience and worktime data on stone quarries and mills in the United States, 1911-71.....	11
A-1. Injury experience by degree and worktime data on stone quarries and mills in the United States, by general work location, 1970...	12
A-2. Number and average severity of injuries by degree at stone quarries and mills in the United States, by general work location and detailed cause, 1970.....	13
A-3. Fatal injuries and distribution by part of body injured at stone quarries and mills in the United States, by general work location and detailed cause, 1970.....	17
A-4. Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and part of body injured, 1970.....	18
A-5. Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and nature of injury, 1970.....	19
A-6. Injury experience and worktime data on stone quarries and mills in the United States, by general work location and employment size group, 1970.....	21
A-7. Injuries by degree at stone quarries and mills in the United States, by State, 1970.....	22
A-8. Fatal injuries by general work location and main cause at stone quarries and mills in the United States, by State, 1970.....	23
A-9. Nonfatal injuries by general work location and main cause at stone quarries and mills in the United States, by State, 1970....	24

TABLES--Continued

	<u>Page</u>
A-10. Injuries by general work location and main cause at stone quarries and mills in the United States, by degree of injury and kind of stone, 1970.....	27
A-11. Injuries by general work location and main cause at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, degree of injury, and kind of stone, 1970.....	30
A-12. Injury experience and worktime data at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and kind of stone, 1970.....	33
A-13. Injury experience and worktime data on dimension stone and crushed and broken stone quarries and mills in the United States, by State, 1970.....	35
A-14. Injury experience and worktime data on stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and employment size group, 1970.....	36
A-15. Injury experience and worktime data by general work location at stone quarries and mills in the United States, by kind of stone, 1970.....	37
A-16. Injury experience and worktime data by general work location at cement operations in the United States, by State, 1970.....	39
A-17. Injury experience and worktime data by general work location at granite operations in the United States, by State, 1970.....	44
A-18. Injury experience and worktime data by general work location at limestone operations in the United States, by State, 1970....	49
A-19. Injury experience and worktime data by general work location at limestone (chief product, lime) operations in the United States, by State, 1970.....	54
A-20. Injury experience and worktime data by general work location at marble operations in the United States, by State, 1970.....	59
A-21. Injury experience and worktime data by general work location at sandstone operations in the United States, by State, 1970....	62
A-22. Injury experience and worktime data by general work location at slate operations in the United States, by State, 1970.....	67
A-23. Injury experience and worktime data by general work location at traprock operations in the United States, by State, 1970.....	69
A-24. Injury experience and worktime data by general work location at miscellaneous stone operations in the United States, by State, 1970.....	74
A-25. Injury experience and worktime data by general work location at stone quarries and mills in the United States, by State, 1970...	79
A-26. Injury experience and worktime data on offworkers at stone quarries and mills in the United States, by kind of stone, 1970.....	84
A-27. Injury experience and worktime data on offworkers at stone quarries and mills in the United States, by State, 1970.....	84
B-1. Injury experience by degree and worktime data on stone quarries and mills in the United States, by general work location, 1971..	85

TABLES--Continued

Page

B-2.	Number and average severity of injuries by degree at stone quarries and mills in the United States, by general work location and detailed cause, 1971.....	86
B-3.	Fatal injuries and distribution by part of body injured at stone quarries and mills in the United States, by general work location and detailed cause, 1971.....	90
B-4.	Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and part of body injured, 1971.....	91
B-5.	Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and nature of injury, 1971.....	92
B-6.	Injury experience and worktime data at stone quarries and mills in the United States, by general work location and employment size group, 1971.....	94
B-7.	Injuries by degree at stone quarries and mills in the United States, by State, 1971.....	95
B-8.	Fatal injuries by general work location and main cause at stone quarries and mills in the United States, by State, 1971.....	96
B-9.	Nonfatal injuries by general work location and main cause at stone quarries and mills in the United States, by State, 1971...	97
B-10.	Injuries by general work location and main cause at stone quarries and mills in the United States, by degree of injury and kind of stone, 1971.....	100
B-11.	Injuries by general work location and main cause at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, degree of injury, and kind of stone, 1971.....	103
B-12.	Injury experience and worktime data at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and kind of stone, 1971.....	106
B-13.	Injury experience and worktime data on dimension stone and crushed and broken stone quarries and mills in the United States, by State, 1971.....	108
B-14.	Injury experience and worktime data on stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and employment size group, 1971.....	109
B-15.	Injury experience and worktime data by general work location at stone quarries and mills in the United States, by kind of stone, 1971.....	110
B-16.	Injury experience and worktime data by general work location at cement operations in the United States, by State, 1971.....	112
B-17.	Injury experience and worktime data by general work location at granite operations in the United States, by State, 1971.....	117
B-18.	Injury experience and worktime data by general work location at limestone operations in the United States, by State, 1971....	122
B-19.	Injury experience and worktime data by general work location at limestone (chief product, lime) operations in the United States, by State, 1971.....	127

TABLES--Continued

	<u>Page</u>
B-20. Injury experience and worktime data by general work location at marble operations in the United States, by State, 1971.....	132
B-21. Injury experience and worktime data by general work location at sandstone operations in the United States, by State, 1971....	135
B-22. Injury experience and worktime data by general work location at slate operations in the United States, by State, 1971.....	140
B-23. Injury experience and worktime data by general work location at traprock operations in the United States, by State, 1971.....	142
B-24. Injury experience and worktime data by general work location at miscellaneous stone operations in the United States, by State, 1971.....	147
B-25. Injury experience and worktime data by general work location at stone quarries and mills in the United States, by State, 1971.....	152
B-26. Injury experience and worktime data on officeworkers at stone quarries and mills in the United States, by kind of stone, 1971.....	157
B-27. Injury experience and worktime data on officeworkers at stone quarries and mills in the United States, by State, 1971.....	157

INJURY EXPERIENCE IN QUARRYING, 1970-71

by

Staff, Branch of Recurring Reports,
Health and Safety Analysis Center

ABSTRACT

This report reviews injury experience in the quarrying industry for 1970-71. Twenty-seven tables for each year are presented in which disabling work injuries are summarized by department, source of injury, extent of disability, part of body injured, and nature of injury. Correlative information on employment, worktime, and operating activity also is presented.

INTRODUCTION

Under provisions of Section 13, Public Law 89-577 (Federal Metal and Nonmetallic Mine Safety Act), the Bureau of Mines collected injury and employment data for stone quarries and mills by a mandatory reporting system in 1970 and 1971. This Act required the operators of mines and/or mills subject to the Act to submit reports of accidents, injuries, and occupational diseases, and related data.

Quarry operators classified disabling work injuries by department, source of injury, extent of disability, part of body injured, and nature of injury, as requested on the annual employment canvass form. From these data, personnel of the Health and Safety Analysis Center of the Mining Enforcement and Safety Administration (MESA) determined the appropriate injury classification and tabulated the injuries by common factors. The relative prevalence of injuries to the different parts of the body, the nature of the injury, and the relative severity of injuries are among the summarized factors. Data pertaining to injury and employment statistics are contained in appendix A for 1970 and in appendix B for 1971. Appendix C is a sample of the canvass form used to collect these data.

ACKNOWLEDGMENTS

MESA acknowledges the cooperation of the operators of the stone quarries and mills who submitted data on injuries and related employment. This cooperation makes possible the compilation of industrywide information on injury experience to aid in the promotion of safe working habits and conditions.

SCOPE OF STATISTICS

The statistical data of this report cover the work experience of all personnel engaged in exploration, development, production, maintenance, repair, and force-account construction work, including supervisory and technical personnel and working partners. Information concerning onsite office-workers at stone quarries and mills appears separately and is presented only as mentioned specifically in table titles.

The compiled information is based on reports covering an annual average of 5,147 quarries and 3,466 mills in operation during all or part of the period 1970-71. Most of the information on stone quarries and mills was received directly from the operators. However, to obtain complete coverage of the industry, it was necessary to estimate injury and employment data for certain operations from information available from other sources.

The terminology used throughout this report is that generally used by the mineral-extractive industries and by the Bureau of Mines and MESA. The recording and measuring of work injury experience follows the U.S.A. Standard Method.¹ The classification and extent of industries is in close general agreement with the Standard Industrial Classification.²

DEFINITION OF TERMS

Key terms used in this publication series are defined or described as follows:

Disabling work injury.--Any injury suffered by a person that arises out of and in the course of his employment that results in death, permanent total disability, permanent partial disability, or temporary total disability.

Fatality.--Any death resulting from a disabling work injury, regardless of the time intervening between injury and death.

Permanent total disability.--Any disabling work injury other than death that permanently and totally incapacitates an employee from following any gainful occupation, or that results in the loss, or the complete loss of use, of both or any two: hands, arms, legs, feet, or eyes.

Permanent partial disability.--Any disabling work injury other than death or permanent total disability that results in the loss, or the complete loss of use, of any member or part of a member of the body, or any permanent impairment of functions of the body or part thereof, regardless of any pre-existing disability of the injured member or impaired body function.

¹United States of America Standards Institute (formerly the American Standards Association, Inc.). U.S.A. Standard Method of Recording and Measuring Work Injury Experience. Bull. Z16.1--1967, pp. 7-15.

²Executive Office of the President, Bureau of the Budget. Standard Industrial Classification Manual. 1957 revision.

Temporary total disability.--Any disabling work injury that does not result in death or permanent impairment, but which renders the injured person unable to perform a regularly established job that is open and available to him, during the entire time interval corresponding to the hours of his regular shift on any one or more days (including Sundays, days off, or plant shutdown) subsequent to the date of injury.

Lost time injury.--Same as disabling work injury.

Disabling injury-frequency rate.--The number of disabling work injuries per million man-hours of exposure. It is calculated by multiplying the total number of injuries by one million and dividing the product by the total man-hours of worktime.

Disabling injury-severity rate.--The number of days lost or charged from disabling work injuries per million man-hours of exposure. It is calculated by multiplying the total number of days lost or charged by one million and dividing the product by the total man-hours of worktime.

Average severity.--The average number of days lost or charged per disabling injury. It is calculated from the total number of days lost or charged divided by the total number of disabling injuries.

Days lost.--The number of full calendar days the injured employee was unable to work as the result of a temporary total disability.

Days charged.--All fatalities and permanent total disabilities have a standard time-loss charge of 6,000 days. Injuries resulting in permanent partial disability are assigned a time-loss charge depending upon the particular injury as specified by the U.S.A. Standard Table of Scheduled Charges.³

Men employed.--Average number of men at work each day the mine or plant was active for production or development. As absenteeism and labor turnover are considered, this number is lower than the number available for work as measured by a count of names on the payroll.

Underground mine.--An underground mining establishment separated into an underground department and a surface department which includes the associated supply, maintenance, repair, and yard facilities on the surface.

Open pit.--An open pit mining establishment including the pit and associated surface facilities.

Other surface mining.--Placer, dredging, hydraulicking, leaching, wells and brines, Frasch sulfur, and exploration establishments as well as stockpiles, mine dumps, and old tailings dumps worked for recovery of ore.

Mill.--An establishment processing ores and minerals by washing, screening, crushing, grinding, concentrating, or other means. The mill may be in

³Pp. 10-11 of work cited in footnote 1.

conjunction with a mining operation or may be operated independently as a custom mill.

Accident-cause classification.--The cause classification used in this report has been developed by the Bureau of Mines through many years of analyzing descriptions of accidents which resulted in injuries at mineral extractive and processing operations. The classification descriptions are as follows:

Falls of roof or back.--Falls of ore or rock from their in-place location in the mine roof, back, overhead, or brow. Excludes falls of rock or ore caused by equipment knocking out support or falls from pressure bumps or bursts.

Falls of face or side.--Any fall of ore, rock, or waste from their in-place location in the face, wall, breast, side, rib, or pillar in underground workings and from the side, face, or wall in open pits. Excludes falls caused by equipment knocking out support or falls from pressure bumps or bursts.

Pressure bumps or bursts.--Falling or flying roof, back, face, or side material caused by pressure bumps or bursts.

Inrush of water or material.--Includes inrushes of water or unconsolidated material caused by mining into or too close to flooded old workings, natural subterranean cavities, etc., or unconsolidated sediments such as sand.

Other falling materials or objects.--Rolling, shifting, sliding, or falling materials or objects not being handled or disturbed by the injured worker. Includes ore or rock already broken from its in-place position.

Slips or falls of persons.--Slips or falls on the same level and from an elevation are grouped separately. Slips or falls in or from haulage equipment that resulted from an accident on haulage, from the motion of haulage equipment, or while getting on or off haulage equipment are excluded. Slips or falls into moving or operating machinery or into electrically generated equipment also are excluded.

Handling materials.--Injuries occurring while moving, lifting, loading, carrying, or installing ore, rock, supplies, or materials; and injuries from flying particles from materials being handled or moved.

Handtools.--Accidents from tools in hands of injured worker or of fellow worker, except power-driven tools. Includes flying pieces from tools being used.

Stepping or kneeling on sharp or loose objects.--Stepping or kneeling on sharp or loose objects, slips or falls from stepping on loose objects, and cases of bursitis, or "miner's knee" resulting from working on hands and/or knees.

Striking or bumping against objects.--Cases of walking or bumping into stationary objects. Excludes cases of striking or bumping in the course of servicing and repairing equipment, handling materials, using handtools, operating machinery or haulage equipment, etc. Excludes cases of striking or bumping moving or operating machinery or electrically generated equipment.

Haulage.--Haulage accidents are divided into the following six groups: (1) mine cages, cars, or motors; (2) shuttle cars, transloaders, and small mobile trucks; (3) railroad cars and locomotives; (4) water transportation; (5) automobiles, gasoline or diesel trucks, tractors, etc.; and (6) miscellaneous equipment (ropes, animals, belts, etc.). Included in the haulage category are falls of roof, back, or face from equipment knocking out supports; slips or falls of persons resulting from haulage accidents, from the motion of the equipment, or while getting on or off equipment; and flying particles set in motion by haulage equipment or draft therefrom.

Explosions of gas or dust.--Explosions of gas or dust in the mine environment.

Explosives and breaking agents.--Cases in which the detonation, fumes, flying fragments, or improper use of the explosive or breaking agent, fuses, caps, or detonators was the cause of injury.

Electricity.--Cases resulting from contact with electric current or from arcs or flashes.

Machinery.--Accidents while operating machines are separated from those while moving or tramping a whole machine, except continuous mining machines. Injuries occurring while moving a repair part of a machine are classed under "handling materials." Included in the machinery classification are falls of roof or face caused by machinery knocking out support, setting-up or servicing machinery, and flying particles set in motion by machinery. Excluded from the classification are accidents occurring in the course of repairing machines, unless the accident resulted from in-motion machinery.

Suffocation.--Divided into suffocation (1) from naturally occurring gases from strata or processing gases, or from oxygen-depleted atmospheres, and (2) from foreign gases such as from oil or gasoline fumes, from gases and smoke drawn underground from a surface fire, or from gas wells. Excludes gases from mine fires, explosions, and explosives use.

Mine fires and suffocation from fires.--Mine fire accidents are divided into (1) mine fires in which mineral or timber is burning, and (2) other fires in which equipment or material other than mineral or timber is burning.

Miscellaneous causes.--Includes flying particles from draft or wind; gas or burns from carbide; gas, burns, or flying materials or flashes from acetylene and electric welding and cutting; irritations and burns from battery fluid or other acids; burns from controlled wood, oil, or coal fires, steam, hot grease, oil, etc.; and all other accidents not elsewhere classified.

Occupational pneumoconiosis.--A chronic dust disease of the lungs, such as silicosis, caused by prolonged inhalation of occupational dusts, such as coal.

HISTORICAL INJURY EXPERIENCE IN THE QUARRYING INDUSTRY

Data have been published since 1911 for the quarrying industry, for the average number of men employed, the average days active, man-days worked, fatalities, and nonfatalities by severity of injury. From 1911 to 1914, inclusive, the Bureau's classification of nonfatal injuries covered two groups--"serious" injuries, disabling a workman for more than 20 days, and "slight" injuries, causing disability not exceeding 20 days but for longer than the remainder of the day of injury. From 1915 to 1929, a "serious" injury, as the term was used in the Bureau reports, signified a temporary injury disabling an employee for more than 14 days. Beginning in 1930, all temporary total injuries have been included in a single group, each injury causing disability for more than the remainder of the day on which the injury occurred. Nonfatal injuries are classified by severity of injury as follows: Permanent total, permanent partial, and temporary total.

From 1911 through 1916, injury-frequency rates in this series of publications were indicated by showing the number of injuries per thousand men employed. This basis was later improved, 1917 to 1930 inclusive, by the adoption of a method that gave weight to the number of days during which the quarries were in operation. In calculating rates, the total number of employees was converted to the equivalent number of 300-day workers. This latter figure was employed to determine the injury rates per thousand 300-day workers.

Beginning in 1931, the Bureau of Mines began to collect and use the number of man-hours of exposure as the basis for determining injury-frequency rates. Most of the operating companies report the number of man-hours worked, and that figure is generally accepted by the Bureau as the best record available. In some cases, however, it has been necessary to approximate the number of man-hours by multiplying the average number of employees by the number of days the employees worked and then multiplying the product by the number of hours worked per day (length of working shift). It is thus possible to reduce all such variations as number of men working in different mines, number of working days per year, and number of working hours per day into a common denominator of comparison. Once all injury rates are converted to a man-hour basis, the rates for quarrying and other industries may be compared, as may the rates for the same or different classes of mining from year to year or quarries in different localities. The relative risk for different groups or for the same group for different periods of time may thus be compared.

In 1936 the canvass of the quarrying industry was expanded to include plants operated by noncommercial agencies, such as States, counties, and cities. It is not believed that the reports received represented all operations of a noncommercial character, and it is impossible to state the extent of coverage represented by the reports. Data on noncommercial plants for 1936 through 1948 were shown separately. However, in 1949 the data for

noncommercial and commercial plants were combined, and since that date separate data have not been available.

In 1962, the Bureau of Mines requested the operators of all quarries to furnish a description of each disabling injury and to report the number of days of disability experienced for each temporary total injury. Fatal and permanent total injuries are assigned the standard charge of 6,000 days. Permanent partial disabilities either traumatic or surgical resulting from work injuries are assigned charges as provided in table 1. These charges are used whether the actual number of days lost is greater or less than the scheduled charges, or when no days are lost, except in those few instances when an employee suffers a permanent partial injury to one part of his body and a temporary total injury to another part in one accident. In the last instance, the greater charge is used and determines the injury classification. Beginning in 1962, therefore, injury-severity rates have been available for the quarrying industry in the United States.

Injury and employment data for the quarrying industry were collected on a voluntary basis from 1911 through 1961, and by a mandatory reporting system in 1962 under provisions of Public Law 87-300. During the period 1963-65, reporting was again on a voluntary basis.

Beginning in 1966, injury and employment data for quarry operations were collected annually by a mandatory reporting system under provisions of Section 13, Public Law 89-577.

Table 1 gives the scale of time charges for injuries. Table 2 gives the salient statistics for 1967-71; table 3 presents the injury experience and employment data on stone quarries and mills in the United States for 1911-71.

GENERAL INJURY EXPERIENCE

During 1970, the overall injury experience, excluding officeworkers, at 8,488 stone quarries and mills was 43 fatal and 3,666 nonfatal disabling work injuries. These injuries resulted in a combined fatal and nonfatal injury-frequency rate of 20.13 per million man-hours of exposure, consisting of a fatality rate of 0.23 and a nonfatal injury rate of 19.90. The combined injury-severity rate of 2,292 consisted of a fatal injury rate of 1,400 and a nonfatal injury rate of 891. The average severity of all injuries at stone quarries and mills was 114 days lost per disabling work injury. An average of 82,010 men worked daily in the quarrying industry during 1970, accumulating approximately 184.2 million man-hours during the year.

During 1971, the overall injury experience, excluding officeworkers, at 8,737 stone quarries and mills was 58 fatal and 3,893 nonfatal disabling work injuries. These injuries resulted in a combined fatal and nonfatal injury-frequency rate of 21.40 per million man-hours of exposure, consisting of a fatal injury rate of 0.31 and a nonfatal injury rate of 21.09. The combined injury-severity rate of 2,784 consisted of a fatal injury rate of 1,885 and a nonfatal injury rate of 899. The average severity of all injuries at stone quarries and mills was 130 days lost per disabling work injury. An average of 82,806 men worked daily in the quarrying industry during 1971, accumulating approximately 184.6 million man-hours during the year.

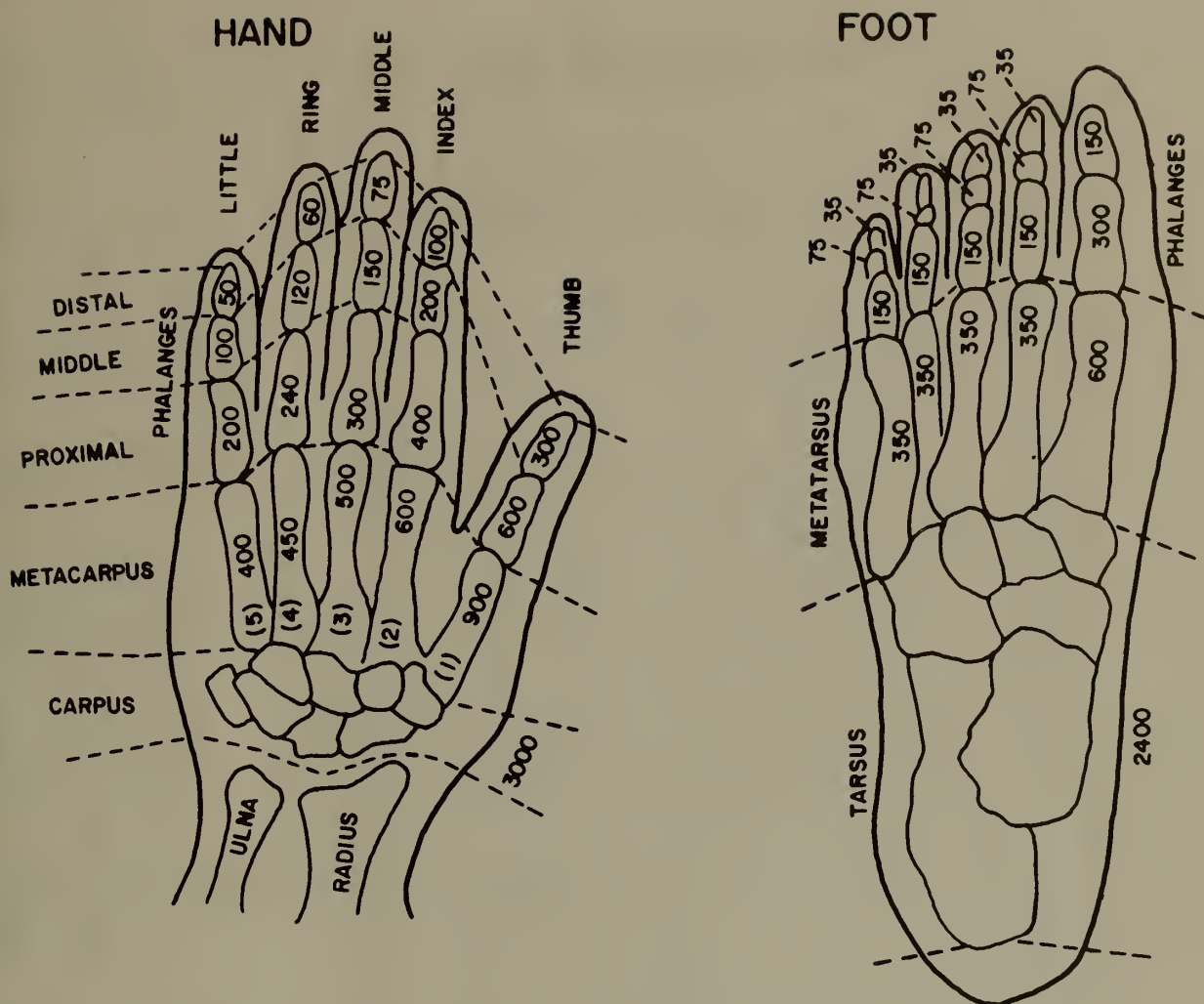
TABLE 1. - Scale of time charges¹ for weighting deaths, permanent total disabilities, and permanent partial disabilities for computing severity of injuries

Injury	Time charge (days)
Death.....	6,000
Permanent total disability.....	6,000
Dismemberment ² or total loss of use:	
Arm above elbow.....	4,500
Arm at or below elbow and above wrist.....	3,600
Hand at wrist.....	3,000
Thumb.....	(³)
Finger.....	(³)
Leg above knee.....	4,500
Leg at or below knee and above ankle.....	3,000
Foot at ankle.....	2,400
Great toe.....	(³)
Other toes.....	(³)
Loss of sight:	
One eye (whether or not there is sight in the other eye).....	1,800
Both eyes (in one accident).....	6,000
Complete industrial loss of hearing:	
One ear (whether or not there is hearing in the other ear).....	600
Both ears (in one accident).....	3,000
Unrepaired hernia.....	50

¹ United States of America Standards Institute (formerly the American Standards Association, Inc.). U.S.A. Standard Method of Recording and Measuring Work Injury Experience. Bull. Z16.1--1967, 28 pp.

² Dismemberment means severance of any part of the bone.

³ See figure 1 for scheduled charges for hand and foot.



NOTE :

Numbers shown on diagram are charges in days lost for loss of all or part of bone.

For additional information on use of the chart see 2.3.1.1 through 2.3.1.5 Bulletin Z.16.1-1967 USA Standard Method of Recording and Measuring Work Injury Experience

FIGURE 1. - Chart of scheduled charges for loss or loss of use involving hand or foot.

TABLE 2. - Salient statistics on injuries, injury rates, and worktime data on stone quarries and mills in the United States, 1967-71

	Excluding offcieworkers					Including offcieworkers				
	1967	1968	1969	1970	1971	1967	1968	1969	1970	1971
Injuries:										
Fatal-----	46	58	53	43	58	46	58	53	43	58
Nonfatal:										
Permanent total-----	3	2	1	1	2	3	2	1	1	2
Permanent partial-----	95	97	116	113	100	95	97	116	113	100
Temporary total-----	3,169	3,161	3,272	3,552	3,791	3,180	3,170	3,279	3,565	3,801
Total nonfatal-----	3,267	3,260	3,389	3,666	3,893	3,278	3,269	3,396	3,679	3,903
Grand total-----	3,313	3,318	3,442	3,709	3,951	3,324	3,327	3,449	3,722	3,961
Injury rates:										
Frequency per million man-hours:										
Fatal-----	0.25	0.31	0.28	0.23	0.31	0.23	0.29	0.26	0.22	0.29
Nonfatal-----	17.54	17.47	18.12	19.90	21.09	16.27	16.24	16.81	18.43	19.45
Total fatal and nonfatal----	17.79	17.78	18.41	20.13	21.40	16.49	16.53	17.08	18.65	19.74
Severity per million man-hours:										
Fatal-----	1,482	1,865	1,701	1,400	1,885	1,370	1,729	1,574	1,293	1,734
Nonfatal-----	826	835	934	891	899	763	774	865	824	828
Total fatal and nonfatal----	2,308	2,700	2,634	2,292	2,784	2,133	2,503	2,440	2,116	2,562
Average severity (days lost per injury):										
Permanent partial-----	570	624	696	599	581	570	624	696	599	581
Temporary total-----	26	26	27	25	25	26	26	27	25	25
All injuries-----	130	152	143	114	130	129	151	143	113	130
Average men working daily-----	84,765	84,084	83,149	82,010	82,806	91,952	91,010	90,209	89,268	90,520
Average days active-----	266	268	272	269	267	266	268	271	268	266
Man-days worked-----	22,548,479	22,543,247	22,585,595	22,082,350	22,125,931	24,430,629	24,352,453	24,429,468	23,959,477	24,097,989
Man-hours worked-----	186,226,587	186,620,158	187,003,122	184,225,117	184,615,166	201,518,183	201,306,806	201,970,124	199,586,988	200,686,300
Average hours per man per day-----	8.26	8.28	8.28	8.34	8.34	8.25	8.27	8.27	8.33	8.33
Average hours per man per year-----	2,197	2,219	2,249	2,249	2,229	2,192	2,239	2,239	2,236	2,217
Active mines-----	5,373	5,120	5,056	5,115	5,179	5,373	5,120	5,056	5,115	5,179
Active mills-----	3,443	3,595	3,499	3,373	3,558	3,443	3,595	3,499	3,373	3,558

TABLE 3. - Injury experience and worktime data at stone quarries and mills
in the United States, 1911-71

Year	Injuries		Frequency rates per million man-hours (1/)		Average men working daily	Average days active	Man-days worked (thousands)	Man-hours worked (thousands) (2/)
	Fatal	Nonfatal	Fatal	Nonfatal				
1911-----	188	5,390	0.79	22.74	110,954	228	25,325	237,043
1912-----	213	6,552	.81	24.87	113,105	249	28,151	263,494
1913-----	183	7,739	.75	31.63	106,278	246	26,142	244,691
1914-----	180	7,836	.94	40.93	87,936	233	20,456	191,470
1915-----	148	9,671	.64	41.77	100,740	246	24,734	231,512
1916-----	173	13,427	.81	62.54	90,797	253	22,937	214,692
1917-----	131	13,242	.65	65.93	82,290	261	21,457	200,841
1918-----	125	8,719	.75	52.38	68,332	260	17,786	166,472
1919-----	123	9,199	.69	51.35	75,505	253	19,138	179,135
1920-----	178	11,217	.82	51.82	86,488	267	23,127	216,465
1921-----	120	10,465	.71	62.16	77,185	233	17,988	168,363
1922-----	132	11,839	.68	61.23	79,081	261	20,658	193,362
1923-----	143	14,990	.60	62.69	92,455	276	25,546	239,109
1924-----	138	14,777	.58	62.35	94,242	269	25,328	236,983
1925-----	149	14,165	.64	60.74	91,872	273	25,046	233,222
1926-----	154	13,201	.67	57.28	91,146	271	24,708	230,464
1927-----	135	13,459	.59	58.57	91,517	271	24,783	229,806
1928-----	119	10,568	.53	46.98	89,667	272	24,397	224,953
1929-----	126	9,810	.59	46.32	85,561	268	22,968	211,766
1930-----	105	7,417	.56	39.77	80,633	255	20,559	186,502
1931-----	61	5,427	.46	40.58	69,200	224	15,527	133,750
1932-----	32	3,574	.34	38.14	56,866	195	11,114	93,710
1933-----	59	3,637	.67	41.38	61,927	183	11,362	87,888
1934-----	60	3,924	.63	41.19	64,331	204	13,108	95,259
1935-----	51	4,152	.46	37.73	73,005	200	14,623	110,033
1936-----	91	5,717	.62	38.87	80,022	236	18,874	147,064
1937-----	77	6,348	.49	40.10	84,094	241	20,264	158,299
1938-----	82	5,027	.61	37.58	77,497	223	17,256	133,766
1939-----	48	5,204	.33	36.18	79,449	236	18,726	143,847
1940-----	72	5,188	.49	35.23	79,509	240	19,121	147,244
1941-----	76	6,870	.44	39.67	86,123	260	22,370	173,165
1942-----	112	6,349	.62	35.11	84,270	271	22,808	180,836
1943-----	80	5,199	.52	33.48	69,877	274	19,136	155,280
1944-----	73	4,437	.56	34.32	58,476	268	15,691	129,302
1945-----	53	4,121	.42	32.41	58,180	264	15,376	127,168
1946-----	55	5,137	.35	32.40	70,265	274	19,262	158,528
1947-----	75	5,504	.44	32.00	75,245	279	20,996	171,979
1948-----	75	4,994	.42	27.88	77,344	284	21,993	179,111
1949-----	66	4,826	.36	26.48	82,209	275	22,569	182,258
1950-----	54	4,762	.28	25.12	85,730	272	23,346	189,535
1951-----	57	4,945	.30	25.87	84,802	277	23,470	191,113
1952-----	74	4,503	.40	24.14	81,879	279	22,844	186,552
1953-----	43	4,450	.23	23.45	83,641	278	23,248	189,777
1954-----	34	3,834	.19	21.81	78,910	273	21,506	175,817
1955-----	53	3,811	.30	21.68	78,238	274	21,470	175,775
1956-----	50	3,754	.28	21.06	80,093	272	21,776	178,281
1957-----	53	4,210	.29	22.96	84,126	266	22,410	183,394
1958-----	45	4,572	.24	24.47	88,448	264	23,353	186,821
1959-----	52	4,790	.26	24.03	91,523	(3/)	(3/)	199,321
1960-----	39	4,668	.19	23.07	95,304	(3/)	(3/)	202,366
1961-----	32	4,280	.17	22.21	91,371	257	23,524	192,705
1962-----	67	3,299	.35	17.05	92,241	254	23,393	193,453
1963-----	61	3,468	.31	17.91	91,960	256	23,553	193,685
1964-----	61	3,367	.32	17.91	87,859	260	22,873	188,000
1965-----	48	3,305	.25	17.04	89,580	263	23,535	194,000
1966-----	51	3,583	.27	18.78	85,826	269	23,113	190,787
1967-----	46	3,267	.25	17.54	84,765	266	22,548	186,227
1968-----	58	3,260	.31	17.47	84,084	268	22,543	186,620
1969-----	53	3,389	.28	18.12	83,149	272	22,586	187,003
1970-----	43	3,666	.23	19.90	82,010	269	22,082	184,225
1971-----	58	3,893	.31	21.09	82,806	267	22,126	184,615

1/ Injury rates before 1916 are believed not to be representative owing to probable incompleteness of reports of slight or minor injuries.

2/ Man-hours for 1911-1923 computed on assumption that weighted average workday was 9.36 hours, as shown by reports from representative operating companies for 1924.

3/ Not available.

APPENDIX A.--TABLES FOR 1970

TABLE A-1. - Injury experience by degree and worktime data on stone quarries and mills in the United States, by general work location, 1970

General work location	Injuries						Frequency rates per million man-hours			Severity rates per million man-hours			Active operations	Average men working daily	Average days active	Man-days worked	Man-hours worked		
	Fatal	Nonfatal				All injuries	Fatal	Non-fatal	All injuries	Fatal	Non-fatal	All injuries							
		Permanent	Total non-fatal	Tempo-rary total	Total non-fatal														
																		Total	Partial
Underground mines:	1	-	1	85	86	87	0.21	18.31	18.52	1,277	356	1,633	2,250	255	572,643	4,698,115			
Underground-----	2	-	-	38	38	40	1.47	27.90	29.37	8,811	722	9,533	621	261	162,163	1,361,930			
Surface-----																			
Total or average----	3	-	1	123	124	127	.50	20.46	20.96	2,970	438	3,409	2,871	256	734,806	6,060,045			
Open quarries-----	24	-	40	1,541	1,581	1,605	.37	24.24	24.61	2,208	1,122	3,330	31,939	240	7,667,570	65,223,471			
Other surface mining----	2	-	1	59	60	62	1.32	39.49	40.80	7,898	980	8,878	474	306	144,997	1,519,440			
Total or average, mining-----	29	-	42	1,723	1,765	1,794	.40	24.24	24.64	2,390	1,062	3,452	35,284	242	8,547,373	72,802,956			
Mills-----	14	1	71	1,829	1,901	1,915	.13	17.06	17.19	754	780	1,534	46,726	290	13,534,977	111,422,161			
Grand total or average-----	43	1	113	3,552	3,666	3,709	.23	19.90	20.13	1,400	891	2,292	82,010	269	22,082,350	184,225,117			

TABLE A-2. - Number and average severity of injuries by degree at stone quarries and mills in the United States, by general work location and detailed cause, 1970

General work location and detailed cause of injury	Injuries						Average severity		
	Fatal	Nonfatal				All injuries	Permanent partial	Temporary total	All injuries
		Permanent		Temporary total	Total non-fatal				
		Total	Partial						
UNDERGROUND MINES									
Underground:									
Falls of roof or back:									
While mining-----	-	-	-	2	2	2	-	7	7
While loading-----	1	-	-	-	-	1	-	-	6,000
While testing or barring down back-----	-	-	-	3	3	3	-	48	48
All other-----	-	-	-	1	1	1	-	4	4
Falls of face or side: While mining-----	-	-	-	1	1	1	-	48	48
Sliding or falling material or objects: From car, bin, platform, or chute-----	-	-	-	1	1	1	-	16	16
Slips or falls of persons:									
On same level:									
While escaping another hazard-----	-	-	-	1	1	1	-	4	4
While handling material-----	-	-	-	2	2	2	-	61	61
While operating or moving machinery-----	-	-	-	2	2	2	-	2	2
All other-----	-	-	-	5	5	5	-	13	13
From an elevation:									
While operating or moving machinery-----	-	-	-	4	4	4	-	9	9
Caused by failure of scaffold, ladder, or other support-----	-	-	-	3	3	3	-	78	78
Handling material:									
Prop, stull, or timber-----	-	-	-	2	2	2	-	10	10
Ore, valuable mineral-----	-	-	-	10	10	10	-	8	8
Rock or waste-----	-	-	-	1	1	1	-	3	3
Rail-----	-	-	-	1	1	1	-	22	22
Wire or wire rope-----	-	-	-	4	4	4	-	9	9
Flying particle while handling material-----	-	-	-	2	2	2	-	7	7
All other-----	-	-	-	5	5	5	-	8	8
Handtools:									
Hammer or sledge-----	-	-	-	3	3	3	-	43	43
Crowbar or bar-----	-	-	-	2	2	2	-	14	14
In hand of fellow worker-----	-	-	1	-	1	1	50	-	50
All other-----	-	-	-	4	4	4	-	12	12
Stepping or kneeling on sharp or loose objects: While working on hands and knees-----	-	-	-	1	1	1	-	18	18
Striking or bumping against objects-----	-	-	-	2	2	2	-	36	36
Haulage:									
Cages, cars, or motors:									
Struck, run over, or squeezed between: Pulling, pushing, or dropping-----	-	-	-	1	1	1	-	10	10
Squeezed between cage, car, or motor, and other object:									
Pulling, pushing, or dropping-----	-	-	-	2	2	2	-	2	2
Shuttle cars, transloaders, and small mobile trucks: Struck or run over-----	-	-	-	1	1	1	-	4	4
Automobiles, gasoline or diesel trucks: While operating-----	-	-	-	1	1	1	-	4	4
Electricity: Cutout switch or junction box-----	-	-	-	2	2	2	-	61	61
Machinery:									
Power drill, rotary or percussive (except rock bolting)-----	-	-	-	5	5	5	-	29	29
Stationary machinery-----	-	-	-	2	2	2	-	20	20
While moving any machine except mining or loading-----	-	-	-	1	1	1	-	5	5
Particle set in motion by machinery (except rock bolting)-----	-	-	-	2	2	2	-	3	3
Fires or suffocation from fires-----	-	-	-	3	3	3	-	10	10
Miscellaneous causes:									
Irritation or burn from caustic or acid-----	-	-	-	2	2	2	-	10	10
All other-----	-	-	-	1	1	1	-	36	36
Total or average, underground-----	1	-	1	85	86	87	50	19	88
Surface at underground:									
Handling material:									
Ore, valuable mineral-----	-	-	-	1	1	1	-	73	73
All other-----	-	-	-	12	12	12	-	7	7
Haulage:									
Railroad cars and locomotives-----	-	-	-	3	3	3	-	8	8
Automobiles, gasoline or diesel trucks:									
While operating-----	2	-	-	6	6	8	-	114	1,585
Slip or fall on or from-----	-	-	-	9	9	9	-	8	8
Machinery:									
Power shovel, dragline, bulldozer, etc.-----	-	-	-	1	1	1	-	14	14
Particle set in motion by machinery-----	-	-	-	3	3	3	-	11	11
Miscellaneous causes:									
Acetylene or electric welding or cutting-----	-	-	-	2	2	2	-	3	3
Irritation or burn from caustic or acid-----	-	-	-	1	1	1	-	5	5
Total or average, surface at underground-----	2	-	-	38	38	40	-	26	325
Total or average, underground mines-----	3	-	1	123	124	127	50	21	163
OPEN QUARRIES									
Falls of face or side:									
While mining-----	2	-	-	5	5	7	-	51	1,751
While loading-----	-	-	-	1	1	1	-	19	19
All other-----	-	-	-	2	2	2	-	21	21
Sliding or falling material or objects:									
From car, bin, platform, or chute-----	-	-	-	25	25	25	-	15	15
Falling equipment or machinery under repair-----	-	-	-	2	2	2	-	36	36
From stockpile, dump, or gob-----	1	-	-	4	4	5	-	83	1,266
All other-----	-	-	-	4	4	4	-	35	35

TABLE A-2. - Number and average severity of injuries by degree at stone quarries and mills in the United States,
by general work location and detailed cause, 1970 - Continued

General work location and detailed cause of injury	Injuries					Average severity			
	Fatal	Nonfatal			All injuries	Permanent partial	Temporary total	All injuries	
		Permanent		Temporary total					Total non-fatal
		Total	Partial						
OPEN QUARRIES - Continued									
Slips or falls of persons:									
On same level:									
While escaping another hazard-----	-	-	-	4	4	4	-	31	31
While handling material-----	-	-	-	34	34	34	-	14	14
Caused by handtool slipping or breaking-----	-	-	-	11	11	11	-	42	42
While operating or moving machinery-----	-	-	-	10	10	10	-	49	49
All other-----	-	-	1	76	77	77	50	19	19
From an elevation:									
While escaping another hazard-----	-	-	-	2	2	2	-	116	116
While handling material-----	-	-	2	49	51	51	142	35	39
Caused by handtool slipping or breaking-----	-	-	-	5	5	5	-	182	182
While operating or moving machinery-----	-	-	-	51	51	51	-	30	30
Caused by failure of scaffold, ladder, or other support-----	-	-	-	8	8	8	-	70	70
All other-----	-	-	1	63	64	64	750	29	41
Handling material:									
Prop, stull, or timber-----	-	-	-	13	13	13	-	27	27
Ore, valuable mineral-----	1	-	-	76	76	77	-	15	93
Rock or waste-----	-	-	1	56	57	57	516	26	34
Rail-----	-	-	-	1	1	1	-	3	3
Wire or wire rope-----	-	-	1	27	28	28	50	12	14
Flying particle while handling material-----	-	-	1	26	27	27	1,800	7	74
All other-----	-	-	13	242	255	255	431	28	49
Handtools:									
Pick-----	-	-	-	4	4	4	-	14	14
Axe, hatchet, or adz-----	-	-	-	1	1	1	-	18	18
Hammer or sledge-----	-	-	-	19	19	19	-	19	19
Crowbar or bar-----	-	-	-	23	23	23	-	40	40
Shovel-----	-	-	-	4	4	4	-	22	22
Saw-----	-	-	-	2	2	2	-	2	2
In hand of fellow worker-----	-	-	-	11	11	11	-	6	6
Flying particle from tool or object worked on-----	-	-	-	18	18	18	-	8	8
All other-----	-	-	-	27	27	27	-	15	15
Stepping or kneeling on sharp or loose objects:									
Stepping on sharp object-----	-	-	-	9	9	9	-	4	4
Stepping on loose object-----	-	-	-	28	28	28	-	11	11
Striking or bumping against objects-----	-	-	-	11	11	11	-	21	21
Haulage:									
Skips, cars, or motors:									
Struck, run over, or squeezed between: Coupling or uncoupling-----	-	-	2	-	2	2	225	-	225
Squeezed between skip, car, or motor, and other object:									
Operating or riding-----	-	-	-	1	1	1	-	22	22
Collision (while under control)-----	-	-	-	1	1	1	-	57	57
Shuttle cars, transloaders, and small mobile trucks:									
Struck or run over-----	-	-	-	1	1	1	-	212	212
All other-----	-	-	-	1	1	1	-	24	24
Railroad cars and locomotives-----	-	-	-	26	26	26	-	24	24
Automobiles, gasoline or diesel trucks:									
While operating-----	8	-	2	110	112	120	1,200	29	447
Slip or fall on or from-----	1	-	1	107	108	109	4,500	29	125
Water transportation-----	-	-	-	1	1	1	-	15	15
Miscellaneous haulage:									
Rope or cable on haulage-----	-	-	1	6	7	7	100	24	35
Slip or strain from moving car by hand-----	-	-	-	2	2	2	-	2	2
Flying particle-----	-	-	-	6	6	6	-	7	7
All other-----	-	-	1	5	6	6	75	22	30
Explosions of gas or dust: Caused by black powder-----	-	-	-	3	3	3	-	24	24
Explosives:									
Premature shot or blast-----	-	-	-	4	4	4	-	33	33
Misfire or digging into unexploded hole-----	1	-	-	2	2	3	-	6	2,004
Flying fragments-----	-	-	-	5	5	6	-	22	1,018
Suffocation from smoke-----	-	-	-	1	1	1	-	3	3
Transporting or handling explosive-----	-	-	-	1	1	1	-	110	110
All other-----	-	-	-	3	3	3	-	31	31
Electricity:									
Transformer, generator, or stationary motor-----	-	-	-	1	1	1	-	28	28
Power or lighting circuit-----	2	-	-	-	-	2	-	-	6,000
Locomotive or shuttle car-----	-	-	-	2	2	2	-	16	16
Mining or loading machine-----	1	-	-	1	1	2	-	5	3,002
Cutout switch or junction box-----	-	-	-	2	2	2	-	2	2
All other-----	-	-	-	4	4	4	-	15	15
Machinery:									
Belt conveyor-----	-	-	-	13	13	13	-	35	35
Chain, bucket, shaker, or screw conveyor-----	-	-	-	1	1	1	-	7	7
Power drill, rotary or percussive-----	1	-	3	54	57	58	493	29	156
Power shovel, dragline, bulldozer, etc-----	3	-	5	72	77	80	2,195	45	402
Stationary machinery-----	-	-	3	23	26	26	367	59	95
While moving any machine except mining or loading-----	1	-	-	14	14	15	-	24	422
Particle set in motion by machinery-----	-	-	-	15	16	16	1,800	7	119
All other-----	-	-	1	8	9	9	75	32	37
Fires or suffocation from fires:									
Oil, gasoline, other flammable liquid-----	-	-	-	4	4	4	-	15	15
Miscellaneous causes:									
Flying particle from draft or wind-----	-	-	-	12	12	12	-	5	5
Acetylene or electric welding or cutting-----	-	-	-	22	22	22	-	4	4
Irritation or burn from caustic or acid-----	-	-	-	8	8	8	-	10	10
Burn from controlled fire-----	-	-	-	20	20	20	-	36	36
All other-----	-	-	-	25	25	25	-	27	27
Pneumoconiosis-----	1	-	-	-	-	1	-	-	6,000
Total or average, open quarries-----	24	-	40	1,541	1,581	1,605	800	27	135

TABLE A-2. - Number and average severity of injuries by degree at stone quarries and mills in the United States, by general work location and detailed cause, 1970 - Continued

General work location and detailed cause of injury	Injuries						Average severity		
	Fatal	Nonfatal				All injuries	Permanent partial	Temporary total	All injuries
		Permanent		Temporary total	Total non-fatal				
		Total	Partial						
OTHER SURFACE MINING									
Sliding or falling material or objects: Falling equipment or machinery under repair-----	-	-	-	1	1	1	-	40	40
Slips or falls of persons:									
On same level:									
While handling material-----	-	-	-	1	1	1	-	24	24
While operating or moving machinery-----	-	-	-	1	1	1	-	9	9
All other-----	-	-	-	1	1	1	-	57	57
From an elevation:									
While handling material-----	-	-	-	1	1	1	-	41	41
While operating or moving machinery-----	-	-	-	1	1	1	-	3	3
Caused by failure of scaffold, ladder, or other support-----	-	-	-	1	1	1	-	21	21
Other-----	1	-	-	2	2	3	-	16	2,011
Handling material:									
Rail-----	-	-	-	3	3	3	-	17	17
Wire or wire rope-----	-	-	-	4	4	4	-	7	7
All other-----	-	-	-	13	13	13	-	13	13
Handtools:									
Hammer or sledge-----	-	-	-	2	2	2	-	6	6
Crowbar or bar-----	-	-	-	2	2	2	-	6	6
All other-----	-	-	-	1	1	1	-	28	28
Striking or bumping against objects-----	-	-	-	6	6	6	-	16	16
Haulage:									
Water transportation:									
Fall of person-----	-	-	-	5	5	5	-	33	33
Rope or chain on boat or barge-----	1	-	1	2	3	4	450	8	1,616
All other-----	-	-	-	2	2	2	-	10	10
Machinery:									
Belt conveyor-----	-	-	-	1	1	1	-	21	21
Power shovel, dragline, bulldozer, etc.-----	-	-	-	3	3	3	-	34	34
Stationary machinery-----	-	-	-	2	2	2	-	10	10
Miscellaneous causes:									
Acetylene or electric welding or cutting-----	-	-	-	3	3	3	-	26	26
Burn from controlled fire-----	-	-	-	1	1	1	-	3	3
Total or average, other surface mining-----	2	-	1	59	60	62	450	18	218
Total or average, mining-----	29	-	42	1,723	1,765	1,794	774	26	140
MILLS									
Sliding or falling material or objects:									
Dropped or thrown by coworker-----	-	-	-	4	4	4	-	10	10
From car, bin, platform, or chute-----	-	-	1	38	39	39	900	23	45
Falling equipment or machinery under repair-----	-	-	-	1	1	1	-	6	6
All other-----	-	-	-	8	8	8	-	25	25
Slips or falls of persons:									
On same level:									
While escaping another hazard-----	-	-	-	2	2	2	-	9	9
While handling material-----	-	-	-	68	68	68	-	24	24
Caused by handtool slipping or breaking-----	-	-	-	11	11	11	-	16	16
While operating or moving machinery-----	-	-	-	4	4	4	-	33	33
All other-----	-	-	-	90	90	90	-	31	31
From an elevation:									
While escaping another hazard-----	-	-	-	2	2	2	-	23	23
While handling material-----	1	-	-	56	56	57	-	32	137
Caused by handtool slipping or breaking-----	-	-	-	3	3	3	-	14	14
While operating or moving machinery-----	-	-	-	14	14	14	-	42	42
Caused by failure of scaffold, ladder, or other support-----	1	-	1	25	26	27	150	35	260
All other-----	1	-	-	94	94	95	-	28	91
Handling material:									
Prop, stull, or timber-----	-	-	-	14	14	14	-	14	14
Ore, valuable mineral-----	2	-	5	156	161	163	166	18	96
Rock or waste-----	-	-	4	61	65	65	94	26	30
Rail-----	-	-	1	10	11	11	80	29	33
Wire or wire rope-----	-	-	-	12	12	12	-	17	17
Conveyor pan-----	-	-	-	2	2	2	-	3	3
Flying particle while loading car-----	-	-	-	1	1	1	-	1	1
Flying particle while handline material-----	-	-	1	30	31	31	1,800	6	64
All other-----	-	-	17	333	350	350	390	20	38
Handtools:									
Hammer or sledge-----	-	-	1	28	29	29	60	20	22
Crowbar or bar-----	-	-	2	35	37	37	230	20	31
Shovel-----	-	-	-	9	9	9	-	6	6
Saw-----	-	-	-	3	3	3	-	4	4
In hand of fellow worker-----	-	-	-	7	7	7	-	11	11
Flying particle from tool or object worked on-----	-	-	-	11	11	11	-	23	23
All other-----	-	-	2	16	18	18	60	16	21
Stepping or kneeling on sharp or loose objects:									
Stepping on sharp object-----	-	-	-	2	2	2	-	6	6
Stepping on loose object-----	-	-	-	23	23	23	-	35	35
Striking or bumping against objects-----	-	-	-	40	40	40	-	15	15

TABLE A-2. - Number and average severity of injuries by degree at stone quarries and mills in the United States, by general work location and detailed cause, 1970 - Continued

General work location and detailed cause of injury	Injuries						Average severity		
	Fatal	Nonfatal				All injuries	Permanent partial	Temporary total	All injuries
		Permanent		Temporary total	Total non-fatal				
		Total	Partial						
MILLS - Continued									
Haulage:									
Cages, cars, or motors:									
Squeezed between cage, car, or motor, and other object:									
Operating or riding-----	-	-	-	2	2	2	-	43	43
All other-----	-	-	-	1	1	1	-	3	3
Rerailing-----	-	-	-	2	2	2	-	11	11
Runaway (while not under control)-----	-	-	-	1	1	1	-	10	10
Shuttle cars, transloaders, and small mobile trucks:									
Squeezed between shuttle car, transloader, or small mobile truck, and other object-----	-	-	-	1	1	1	-	20	20
All other-----	-	-	-	2	2	2	-	13	13
Railroad cars and locomotives-----	2	-	3	60	63	65	1,850	41	308
Automobiles, gasoline or diesel trucks:									
While operating-----	-	-	2	28	30	30	75	44	46
Slip or fall on or from-----	-	-	-	34	34	34	-	24	24
Water transportation:									
Rope or chain on boat or barge-----	-	-	-	2	2	2	-	34	34
All other-----	-	-	-	1	1	1	-	7	7
Miscellaneous haulage:									
Rope or cable on haulage-----	-	-	-	3	3	3	-	81	81
Slip or strain from moving car by hand-----	-	-	-	1	1	1	-	18	18
Riding or getting on or off conveyor belt-----	1	-	-	-	-	1	-	-	6,000
All other-----	-	-	-	12	12	12	-	18	18
Explosions of gas or dust:									
Caused by match, igniter, or smoking-----	-	-	-	1	1	1	-	93	93
All other-----	-	-	-	5	5	5	-	69	69
Electricity:									
Trolley wire or pole-----	-	-	-	1	1	1	-	36	36
Transformer, generator, or stationary motor-----	-	1	-	-	1	1	-	-	6,000
Power or lighting circuit-----	1	-	-	5	5	6	-	47	1,039
Cutout switch or junction box-----	-	-	-	12	12	12	-	16	16
All other-----	-	-	-	1	1	1	-	8	8
Machinery:									
Belt conveyor-----	2	-	8	58	66	68	1,459	59	398
Chain, bucket, shaker, or screw conveyor-----	-	-	1	14	15	15	550	58	91
Power drill, rotary or percussive-----	-	-	-	12	12	12	-	41	41
Power shovel, dragline, bulldozer, etc-----	-	-	-	35	35	35	-	33	33
Stationary machinery-----	2	-	19	86	105	107	258	25	178
While moving any machine except mining or loading-----	1	-	1	15	16	17	300	40	406
Particle set in motion by machinery-----	-	-	-	22	22	22	-	7	7
All other-----	-	-	-	6	6	6	-	23	23
Fires or suffocation from fires:									
Oil, gasoline, other flammable liquid-----	-	-	-	9	9	9	-	12	12
All other-----	-	-	-	1	1	1	-	30	30
Miscellaneous causes:									
Flying particle from draft or wind-----	-	-	-	5	5	5	-	2	2
Carbide - gas or burns from-----	-	-	-	1	1	1	-	18	18
Acetylene or electric welding or cutting-----	-	-	-	30	30	30	-	6	6
Irritation or burn from caustic or acid-----	-	-	-	76	76	76	-	12	12
Burn from controlled fire-----	-	-	-	38	38	38	-	26	26
All other-----	-	-	2	32	34	34	340	36	54
Pneumoconiosis-----	-	-	-	1	1	1	-	17	17
Total or average, mills-----	14	1	71	1,829	1,901	1,915	496	25	89
Grand total or average-----	43	1	113	3,552	3,666	3,709	599	25	114

TABLE A-3. - Fatal injuries and distribution by part of body injured at stone quarries and mills in the United States,
by general work location Y and detailed cause, 1970

General work location and detailed cause	Injuries										Percentage distribution
	Head, face, neck (excl. eye)	Eye	Trunk	Arm (above wrist)	Wrist, hand, fingers	Leg (above ankle)	Ankle, foot, toes	Multiple	Unclassified (no data)	Total	
UNDERGROUND MINES											
Underground:											
Falls of roof or back:											
While loading-----	-	-	-	-	-	-	-	1	-	1	100.00
Total, underground-----	-	-	-	-	-	-	-	1	-	1	-
Percentage distribution-----	-	-	-	-	-	-	-	100.00	-	-	-
Surface at underground:											
Haulage:											
Automobiles, gasoline or diesel trucks: While operating-----	-	-	1	-	-	-	-	1	-	2	100.00
Total, surface at underground-----	-	-	1	-	-	-	-	1	-	2	-
Percentage distribution-----	-	-	50.00	-	-	-	-	50.00	-	-	-
Total, underground mines-----	-	-	1	-	-	-	-	2	-	3	-
Percentage distribution-----	-	-	33.33	-	-	-	-	66.67	-	-	-
OPEN QUARRIES											
Falls of face or side: While mining-----	1	-	-	-	-	-	-	1	-	2	8.33
Sliding or falling material or objects: From stockpile, dump, or gob-----	-	-	-	-	-	-	-	1	-	1	4.17
Handling material: Ore, valuable mineral-----	-	-	-	-	-	-	-	1	-	1	4.17
Haulage:											
Automobiles, gasoline or diesel trucks:											
While operating-----	-	-	2	-	-	-	-	6	-	8	33.33
Slip or fall on or from-----	-	-	1	-	-	-	-	-	-	1	4.17
Explosives:											
Misfire or digging into unexploded hole-----	-	-	-	-	-	-	-	1	-	1	4.17
Flying fragments-----	-	-	-	-	-	-	-	1	-	1	4.17
Electricity:											
Power or lighting circuit-----	-	-	-	-	-	-	-	2	-	2	8.33
Mining or loading machine-----	-	-	-	-	-	-	-	1	-	1	4.17
Machinery:											
Power drill, rotary or percussive-----	-	-	1	-	-	-	-	-	-	1	4.17
Power shovel, dragline, bulldozer, etc.-----	-	-	-	-	-	-	-	3	-	3	12.50
While moving any machine except mining or loading-----	-	-	-	-	-	-	-	1	-	1	4.17
Pneumoconiosis-----	-	-	1	-	-	-	-	-	-	1	4.17
Total, open quarries-----	1	-	5	-	-	-	-	18	-	24	-
Percentage distribution-----	4.17	-	20.83	-	-	-	-	75.00	-	-	-
OTHER SURFACE MINING											
Slips or falls of persons: From an elevation-----	-	-	1	-	-	-	-	-	-	1	50.00
Haulage: Water transportation: Rope or chain on boat or barge-----	1	-	-	-	-	-	-	-	-	1	50.00
Total, other surface mining-----	1	-	1	-	-	-	-	-	-	2	-
Percentage distribution-----	50.00	-	50.00	-	-	-	-	-	-	-	-
Total, mining-----	2	-	7	-	-	-	-	20	-	29	-
Percentage distribution-----	6.90	-	24.14	-	-	-	-	68.97	-	-	-
MILLS											
Slips or falls of persons:											
From an elevation:											
While handling material-----	-	-	-	-	-	-	-	1	-	1	7.14
Caused by failure of scaffold, ladder, or other support-----	-	-	-	-	-	-	-	1	-	1	7.14
All other-----	-	-	-	-	-	-	-	1	-	1	7.14
Handling material: Ore, valuable mineral-----	-	-	1	-	-	-	-	1	-	2	14.29
Haulage:											
Railroad cars and locomotives-----	-	-	1	-	-	-	-	1	-	2	14.29
Miscellaneous haulage: Riding or getting on or off conveyor belt-----	-	-	-	-	-	-	-	1	-	1	7.14
Electricity: Power or lighting circuit-----	-	-	-	-	-	-	-	1	-	1	7.14
Machinery:											
Belt conveyor-----	1	-	-	-	-	-	-	1	-	2	14.29
Stationary machinery-----	-	-	1	-	-	-	-	1	-	2	14.29
While moving any machine except mining or loading-----	-	-	-	-	-	-	-	1	-	1	7.14
Total, mills-----	1	-	3	-	-	-	-	10	-	14	-
Percentage distribution-----	7.14	-	21.43	-	-	-	-	71.43	-	-	-
Grand total-----	3	-	10	-	-	-	-	30	-	43	-
Percentage distribution-----	6.98	-	23.26	-	-	-	-	69.77	-	-	-

TABLE A-4. - Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and part of body injured, 1970

General work location and part of body injured	Injuries						Percent- age distrib- ution of all injuries 1/	Average severity			Frequency rates per million man-hours		Severity rates per million man-hours	
	Fatal	Nonfatal				All injuries		Perma- nent partial	Tempo- rary total	All injuries	Fatal	Non- fatal	Fatal	Non- fatal
		Permanent		Tempo- rary total	Total non- fatal									
		Total	Partial											
UNDERGROUND MINES														
Underground (including shaft and slope):	-	-	-	8	8	8	10.7	-	7	7	-	1.70	-	1
Head, face, neck (excl. eye)-----	-	-	-	2	2	2	2.7	-	6	6	-	.43	-	2
Trunk-----	-	-	-	25	25	25	33.3	-	23	23	-	5.32	-	123
Arm (above wrist)-----	-	-	-	2	2	2	2.7	-	9	9	-	.43	-	4
Wrist, hand, fingers-----	-	-	1	9	10	10	13.3	50	21	24	-	2.13	-	50
Leg (above ankle)-----	-	-	-	12	12	12	16.0	-	17	17	-	2.55	-	43
Ankle, foot, toes-----	-	-	-	8	8	8	10.7	-	25	25	-	1.70	-	43
Multiple-----	1	-	-	7	7	8	10.7	-	19	766	0.21	1.49	1,277	28
Unclassified (no data)-----	-	-	-	12	12	12	-	-	20	20	-	2.55	-	52
Total or average-----	1	-	1	85	86	87	-	50	19	88	.21	18.31	1,277	356
Surface at underground:														
Head, face, neck (excl. eye)-----	-	-	-	2	2	2	5.9	-	4	4	-	1.47	-	6
Eye-----	-	-	-	3	3	3	8.8	-	8	8	-	2.20	-	18
Trunk-----	1	-	-	7	7	8	23.5	-	25	772	.73	5.14	4,406	128
Arm (above wrist)-----	-	-	-	1	1	1	2.9	-	14	14	-	.73	-	10
Wrist, hand, fingers-----	-	-	-	6	6	6	17.6	-	4	4	-	4.41	-	18
Leg (above ankle)-----	-	-	-	5	5	5	14.7	-	11	11	-	3.67	-	41
Ankle, foot, toes-----	-	-	-	5	5	5	14.7	-	21	21	-	3.67	-	76
Multiple-----	1	-	-	3	3	4	11.8	-	107	1,580	.73	2.20	4,406	236
Unclassified (no data)-----	-	-	-	6	6	6	-	-	43	43	-	4.41	-	189
Total or average-----	2	-	-	38	38	40	-	-	26	325	1.47	27.90	8,811	722
Total or average, underground mines-----	3	-	1	123	124	127	-	50	21	163	.50	20.46	2,970	438
OPEN QUARRIES														
Head, face, neck (excl. eye)-----	1	-	1	73	74	75	5.7	600	17	105	.02	1.13	92	28
Eye-----	-	-	2	69	71	71	5.4	1,800	5	56	-	1.09	-	60
Trunk-----	5	-	6	394	400	405	30.7	279	31	109	.08	6.13	460	214
Arm (above wrist)-----	-	-	-	62	62	62	4.7	-	39	39	-	.95	-	37
Wrist, hand, fingers-----	-	-	25	171	196	196	14.9	565	18	88	-	3.01	-	264
Leg (above ankle)-----	-	-	2	191	193	193	14.6	2,400	31	56	-	2.96	-	165
Ankle, foot, toes-----	-	-	3	195	198	198	15.0	900	22	35	-	3.04	-	107
Multiple-----	18	-	1	99	100	118	9.0	4,500	39	986	.28	1.53	1,656	129
Unclassified (no data)-----	-	-	-	287	287	287	-	-	27	27	-	4.40	-	117
Total or average-----	24	-	40	1,541	1,581	1,605	-	800	27	135	.37	24.24	2,208	1,122
OTHER SURFACE MINING														
Head, face, neck (excl. eye)-----	1	-	-	2	2	3	6.1	-	24	2,016	.66	1.32	3,949	32
Eye-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trunk-----	1	-	-	21	21	22	44.9	-	21	293	.66	13.82	3,949	288
Arm (above wrist)-----	-	-	-	4	4	4	8.2	-	20	20	-	2.63	-	53
Wrist, hand, fingers-----	-	-	-	7	7	7	14.3	-	13	13	-	4.61	-	60
Leg (above ankle)-----	-	-	1	6	7	7	14.3	450	11	74	-	4.61	-	339
Ankle, foot, toes-----	-	-	-	6	6	6	12.2	-	17	17	-	3.95	-	66
Multiple-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unclassified (no data)-----	-	-	-	13	13	13	-	-	16	16	-	8.56	-	141
Total or average-----	2	-	1	59	60	62	-	450	18	218	1.32	39.49	7,898	980
Total or average, mining-----	29	-	42	1,723	1,765	1,794	-	774	26	140	.40	24.24	2,390	1,062
MILLS														
Head, face, neck (excl. eye)-----	1	-	-	89	89	90	5.1	-	20	87	.01	.80	54	16
Eye-----	-	-	1	131	132	132	7.6	1,800	8	22	-	1.18	-	26
Trunk-----	3	1	9	495	505	508	29.1	183	24	74	.03	4.53	162	175
Arm (above wrist)-----	-	-	3	107	110	110	6.3	4,500	27	149	-	.99	-	147
Wrist, hand, fingers-----	-	-	51	242	293	293	16.8	209	20	53	-	2.63	-	138
Leg (above ankle)-----	-	-	1	195	196	196	11.2	4,500	32	55	-	1.76	-	97
Ankle, foot, toes-----	-	-	6	285	291	291	16.6	518	24	35	-	2.61	-	90
Multiple-----	10	-	-	118	118	128	7.3	-	48	513	.09	1.06	538	51
Unclassified (no data)-----	-	-	-	167	167	167	-	-	26	26	-	1.50	-	39
Total or average, mills-----	14	1	71	1,829	1,901	1,915	-	496	25	89	.13	17.06	754	780
Grand total or average-----	43	1	113	3,552	3,666	3,709	-	599	25	114	.23	19.90	1,400	891

^{1/} Number of injuries for which part of body is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 75; for surface 34; for open pit 1,318; for other surface mining 49; and for mills 1,748. Distribution percentages may not add to 100.0 because of independent rounding.

TABLE A-5. - Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and nature of injury, 1970

General work location and nature of injury	Injuria						Percent- age distrib- ution of all injuries 1/	Average severity			Frequency rates per million man-hours		Severity rates per million man-hours	
	Fatal	Nonfatal				All injuries		Perma- nent partial	Tempo- rary total	All injuries	Fatal	Non- fatal	Fatal	Non- fatal
		Permanent		Tempo- rary total	Total non- fatal									
		Total	Partial											
UNDERGROUND MINES														
Underground:														
Amputation, enucleation-----	-	-	1	-	1	1	1.3	50	-	50	-	0.21	-	11
Asphyxiation-----	-	-	-	2	2	2	2.7	-	10	10	-	.43	-	4
Crushing, contusion, bruise-----	-	-	-	24	24	24	32.0	-	10	10	-	5.11	-	53
Burn, scald (except chemical)-----	-	-	-	1	1	1	1.3	-	61	61	-	.21	-	13
Chemical burn-----	-	-	-	1	1	1	1.3	-	10	10	-	.21	-	2
Cut, laceration, puncture-----	-	-	-	15	15	15	20.0	-	8	8	-	3.19	-	25
Foreign body in eye-----	-	-	-	1	1	1	1.3	-	1	1	-	.21	-	(2)
Fracture-----	1	-	-	7	7	8	10.7	-	56	799	0.21	1.49	1,277	84
Strain, sprain, dislocation-----	-	-	-	21	21	21	28.0	-	25	25	-	4.47	-	112
Other, not elsewhere classified-----	-	-	-	1	1	1	1.3	-	4	4	-	.21	-	1
Unclassified (no data)-----	-	-	-	12	12	12	-	-	20	20	-	2.55	-	52
Total or average-----	1	-	1	85	86	87	-	50	19	88	.21	18.31	1,277	356
Surface at underground:														
Crushing, contusion, bruise-----	-	-	-	8	8	8	23.5	-	26	26	-	5.87	-	151
Chemical burn-----	-	-	-	1	1	1	2.9	-	5	5	-	.73	-	4
Radiation, radiating substance-----	-	-	-	1	1	1	2.9	-	3	3	-	.73	-	2
Cut, laceration, puncture-----	-	-	-	7	7	7	20.6	-	5	5	-	5.14	-	23
Foreign body in eye-----	-	-	-	2	2	2	5.9	-	10	10	-	1.47	-	15
Fracture-----	2	-	-	3	3	5	14.7	-	135	2,481	1.47	2.20	8,811	297
Strain, sprain, dislocation-----	-	-	-	9	9	9	26.5	-	6	6	-	6.61	-	37
Concussion (cerebral)-----	-	-	-	1	1	1	2.9	-	6	6	-	.73	-	4
Unclassified (no data)-----	-	-	-	6	6	6	-	-	43	43	-	4.41	-	189
Total or average-----	2	-	-	38	38	40	-	-	26	325	1.47	27.90	8,811	722
Total or average, underground mines-----	3	-	1	123	124	127	-	50	21	163	.50	20.46	2,970	438
OPEN QUARRIES														
Amputation, enucleation-----	-	-	28	-	28	28	2.1	853	-	853	-	.43	-	366
Asphyxiation-----	1	-	-	2	2	3	.2	-	6	2,004	.02	.03	92	(2)
Crushing, contusion, bruise-----	3	-	2	291	293	296	22.5	1,500	15	86	.05	4.49	276	112
Burn, scald (except chemical)-----	-	-	-	40	40	40	3.0	-	20	20	-	.61	-	12
Chemical burn-----	-	-	-	8	8	8	.6	-	10	10	-	.12	-	1
Radiation, radiating substance-----	-	-	-	12	12	12	.9	-	4	4	-	.18	-	1
Cut, laceration, puncture-----	-	-	1	169	170	170	12.9	1,800	13	23	-	2.61	-	61
Dermatitis-----	-	-	-	7	7	7	.5	-	10	10	-	.11	-	1
Drowning-----	1	-	-	-	-	1	.1	-	-	6,000	.02	-	92	-
Electric shock-----	3	-	-	4	4	7	.5	-	20	2,583	.05	.06	276	1
Foreign body in eye-----	-	-	-	35	35	35	2.7	-	4	4	-	.54	-	2
Fracture-----	15	-	3	258	261	276	20.9	441	61	388	.23	4.00	1,380	262
Heat exhaustion, sunstroke-----	-	-	-	4	4	4	.3	-	14	14	-	.06	-	1
Hernia (inguinal)-----	-	-	4	17	21	21	1.6	50	93	85	-	.32	-	27
Poisoning (systemic)-----	-	-	-	4	4	4	.3	-	8	8	-	.06	-	(2)
Strain, sprain, dislocation-----	-	-	1	393	394	394	29.9	1,200	21	24	-	6.04	-	144
Pneumoconiosis (except silicosis)-----	1	-	-	-	-	1	.1	-	-	6,000	.02	-	92	-
Concussion (cerebral)-----	-	-	-	9	9	9	.7	-	21	21	-	.14	-	3
Hearing loss, impairment-----	-	-	1	-	1	1	.1	600	-	600	-	.02	-	9
Other, not elsewhere classified-----	-	-	-	1	1	1	.1	-	8	8	-	.02	-	(2)
Unclassified (no data)-----	-	-	-	287	287	287	-	-	27	27	-	4.40	-	117
Total or average-----	24	-	40	1,541	1,581	1,605	-	800	27	135	.37	24.24	2,208	1,122

1/ Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 75; for surface, 34; for open quarries, 1,318; for other surface mining, 49; and for mills, 1,748. Distribution percentages may not add to 100.0 because of independent rounding.

2/ Less than 0.5.

TABLE A-5. - Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and nature of injury, 1970 - Continued

General work location and nature of injury	Injuries						Percent- age distrib- ution of all injuries 1/	Average severity			Frequency rates per million man-hours		Severity rates per million man-hours	
	Fatal	Nonfatal				All injuries		Perma- nent partial	Tempo- rary total	All injuries	Fatal	Non- fatal	Fatal	Non- fatal
		Permanent		Tempo- rary total	Total non- fatal									
		Total	Partiel											
OTHER SURFACE MINING														
Crushing, contusion, bruise-----	-	-	-	16	16	16	32.7	-	17	17	-	10.53	-	180
Burn, scald (except chemical)-----	-	-	-	3	3	3	6.1	-	18	18	-	1.97	-	36
Cut, laceration, puncture-----	-	-	-	6	6	6	12.2	-	11	11	-	3.95	-	43
Drowning-----	1	-	-	-	-	1	2.0	-	-	6,000	.66	-	3,949	-
Fracture-----	1	-	1	4	5	6	12.2	450	20	1,088	.66	3.29	3,949	348
Hernia (inguinal)-----	-	-	-	1	1	1	2.0	-	42	42	-	.66	-	28
Strain, sprain, dislocation-----	-	-	-	16	16	16	32.7	-	19	19	-	10.53	-	204
Unclassified (no data)-----	-	-	-	13	13	13	-	-	16	16	-	8.56	-	141
Total or average-----	2	-	1	59	60	62	-	450	18	218	1.32	39.49	7,898	980
Total or average, mining-----	29	-	42	1,723	1,765	1,794	-	774	26	140	.40	24.24	2,390	1,062
MILLS														
Amputation, emucleation-----	-	-	52	-	52	52	3.0	550	-	550	-	.47	-	257
Asphyxiation-----	1	-	-	3	3	4	.2	-	13	1,510	.01	.03	54	(2)
Crushing, contusion, bruise-----	-	-	-	366	366	366	20.9	-	12	12	-	3.28	-	41
Burn, scald (except chemical)-----	-	-	-	78	78	78	4.5	-	25	25	-	.70	-	17
Chemical burn-----	-	-	-	66	66	66	3.8	-	12	12	-	.59	-	7
Radiation, radiating substance-----	-	-	-	15	15	15	.9	-	3	3	-	.13	-	(2)
Cut, laceration, puncture-----	1	-	3	220	223	224	12.8	707	18	54	.01	2.00	54	54
Dermatitis-----	-	-	-	1	1	1	.1	-	17	17	-	.01	-	(2)
Electric shock-----	1	-	-	4	4	5	.3	-	10	1,208	.01	.04	54	(2)
Foreign body in eye-----	-	-	-	40	40	40	2.3	-	5	5	-	.36	-	2
Fracture-----	11	1	8	318	327	338	19.3	426	58	278	.10	2.93	592	250
Heat exhaustion, sunstroke-----	-	-	-	2	2	2	.1	-	38	38	-	.02	-	1
Hernia (inguinal)-----	-	-	6	24	30	30	1.7	50	53	53	-	.27	-	14
Poisoning (systemic)-----	-	-	-	5	5	5	.3	-	8	8	-	.04	-	(2)
Strain, sprain, dislocation-----	-	-	1	511	512	512	29.3	300	19	20	-	4.60	-	90
Concussion (cerebral)-----	-	-	-	5	5	5	.3	-	32	32	-	.04	-	1
Hernia (except inguinal)-----	-	-	-	1	1	1	.1	-	77	77	-	.01	-	1
Freezing, frostbite, etc.-----	-	-	1	-	1	1	.1	480	-	480	-	.01	-	4
Inflammation or irritation of joints, tendons, muscles-----	-	-	-	2	2	2	.1	-	10	10	-	.02	-	(2)
Other, not elsewhere classified-----	-	-	-	1	1	1	.1	-	12	12	-	.01	-	(2)
Unclassified (no data)-----	-	-	-	167	167	167	-	-	26	26	-	1.50	-	39
Total or average, mills-----	14	1	71	1,829	1,901	1,915	-	496	25	89	.13	17.06	754	780
Grand total or average-----	43	1	113	3,552	3,666	3,709	-	599	25	114	.23	19.90	1,400	891

1/ Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 75; for surface, 34; for open quarries, 1,318; for other surface mining, 49; and for mills, 1,748. Distribution percentages may not add to 100.0 because of independent rounding.

2/ Less than 0.5.

TABLE A-6. - Injury experience and worktime data on stone quarries and mills in the United States, by general work location and employment size group, 1970

General work location and employment size group	Injuries			Frequency rates per million man-hours			Severity rates per million man-hours			Active operations	Average men working daily	Average days active	Man-days worked	Man-hours worked
	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total					
Underground mines (includes surface work):														
1-4-----	-	-	-	-	-	-	-	-	-	30	84	211	17,727	149,254
5-9-----	-	8	8	-	-	-	-	226	226	38	265	251	66,572	556,590
10-19-----	1	33	34	0.87	28.65	29.52	5,209	663	5,872	41	556	246	136,993	1,151,873
20-34-----	1	28	29	.69	19.46	20.15	4,169	547	4,716	29	696	244	170,109	1,439,142
35-49-----	1	14	15	1.18	16.46	17.64	7,056	539	7,594	9	367	280	102,925	850,372
50-99-----	-	24	24	-	26.66	26.66	-	391	391	7	431	264	113,897	900,149
100-149-----	-	17	17	-	16.79	16.79	-	168	168	4	472	268	126,583	1,012,665
Total or average-----	3	124	127	.50	20.46	20.96	2,970	438	3,409	158	2,871	256	734,806	6,060,045
Open quarries:														
1-4-----	2	285	287	.21	29.49	29.70	1,242	1,932	3,174	2,935	5,450	211	1,152,642	9,662,863
5-9-----	4	346	350	.30	25.93	26.23	1,799	1,356	3,155	1,038	6,728	232	1,558,221	13,342,901
10-19-----	8	399	407	.47	23.37	23.84	2,812	872	3,684	628	8,227	241	1,983,061	17,072,732
20-34-----	6	258	264	.50	21.42	21.92	2,989	706	3,695	223	5,579	257	1,432,851	12,043,359
35-49-----	1	101	102	.20	20.08	20.28	1,193	687	1,880	54	2,178	265	577,824	5,029,017
50-99-----	1	177	178	.15	26.25	26.40	890	1,349	2,239	49	3,166	254	804,300	6,742,769
100-149-----	2	15	17	1.50	11.28	12.78	9,024	341	9,365	5	611	260	158,691	1,329,830
Total or average-----	24	1,581	1,605	.37	24.24	24.61	2,208	1,122	3,330	4,932	31,939	240	7,667,570	65,223,471
Other surface mining:														
1-4-----	-	-	-	-	-	-	-	-	-	3	7	172	1,204	9,628
5-9-----	-	5	5	-	-	-	-	-	-	4	27	296	7,993	77,651
10-19-----	2	45	47	10.48	26.20	36.68	62,877	341	63,217	5	76	280	21,283	190,850
20-34-----	-	45	45	-	51.24	51.24	-	1,426	1,426	10	245	318	77,818	878,151
35-49-----	-	10	10	-	27.54	27.54	-	474	474	3	119	308	36,699	363,160
Total or average-----	2	60	62	1.32	39.49	40.80	7,898	980	8,878	25	474	306	144,997	1,519,440
Total or average, mining-----	29	1,765	1,794	.40	24.24	24.64	2,390	1,062	3,452	5,115	35,284	242	8,567,373	72,802,956
Mills:														
1-4-----	3	248	251	.46	38.31	38.77	2,780	1,431	4,212	1,937	3,426	223	762,921	6,473,725
5-9-----	3	234	237	.41	31.07	32.13	2,440	1,364	3,804	540	3,552	242	860,581	7,376,425
10-19-----	2	353	355	.17	30.72	30.24	1,022	1,148	2,171	394	5,230	256	1,339,530	11,738,328
20-34-----	3	253	256	.29	24.09	24.38	1,714	1,402	3,116	176	4,504	276	1,240,869	10,502,357
35-49-----	-	119	119	-	17.54	17.54	-	891	891	67	2,813	294	836,168	6,784,901
50-99-----	2	339	341	.07	11.49	11.56	407	586	993	159	11,585	315	3,653,713	29,493,465
100-149-----	1	190	191	.05	10.00	10.05	316	554	870	63	7,641	308	2,352,500	19,001,039
150-249-----	-	117	117	-	9.46	9.46	-	304	304	29	5,147	299	1,540,980	12,373,992
250 or more-----	-	48	48	-	6.25	6.25	-	229	229	8	2,798	339	947,715	7,677,929
Total or average, mills-----	14	1,901	1,915	.13	17.06	17.19	754	780	1,534	3,373	46,726	290	13,534,977	111,422,161
Grand total or average-----	43	3,666	3,709	.23	19.90	20.13	1,400	891	2,292	8,488	82,010	269	22,082,350	184,225,117

TABLE A-7. - Injuries by degree at stone quarries and mills in the United States, by State ^{1/}, 1970

State	Injuries											
	At quarry						At mill					
	Fatal	Nonfatal				All injuries	Fatal	Nonfatal				All injuries
		Permanent		Tempo- rary total	Total non- fatal			Permanent		Tempo- rary total	Total non- fatal	
		Total	Partial					Total	Partial			
Alabama-----	-	-	-	18	18	18	1	-	-	36	36	37
Alaska-----	1	-	-	14	14	15	-	-	-	3	3	3
Arizona-----	-	-	-	6	6	6	-	-	-	3	3	3
Arkansas-----	-	-	1	32	33	33	-	-	-	44	44	44
California-----	3	-	2	68	70	73	-	-	2	62	64	64
Colorado-----	-	-	-	11	11	11	-	-	-	8	8	8
Connecticut-----	-	-	-	16	16	16	-	-	-	14	14	14
Florida-----	2	-	-	58	58	60	1	-	2	61	63	64
Georgia-----	1	-	2	65	67	68	-	-	4	94	98	98
Hawaii-----	-	-	-	32	32	32	-	-	-	25	25	25
Idaho-----	-	-	-	5	5	5	-	-	-	4	4	4
Illinois-----	2	-	2	62	64	66	1	-	4	105	109	110
Indiana-----	1	-	2	52	54	55	-	-	6	53	59	59
Iowa-----	-	-	2	50	52	52	1	-	-	47	47	48
Kansas-----	-	-	-	25	25	25	-	-	-	26	26	26
Kentucky-----	1	-	2	77	79	80	-	-	-	32	32	32
Louisiana-----	-	-	-	23	23	23	-	-	2	24	26	26
Maine-----	-	-	-	5	5	5	-	-	-	-	-	-
Maryland-----	-	-	-	54	54	54	-	-	1	42	43	43
Massachusetts-----	-	-	-	14	14	14	1	-	1	31	32	33
Michigan-----	-	-	-	24	24	24	-	-	2	31	33	33
Minnesota-----	-	-	-	22	22	22	-	-	2	49	51	51
Mississippi-----	-	-	-	1	1	1	-	-	-	-	-	-
Missouri-----	1	-	2	68	70	71	-	-	10	111	121	121
Montana-----	-	-	-	12	12	12	-	-	-	9	9	9
Nebraska-----	-	-	-	13	13	13	-	-	-	18	18	18
Nevada-----	-	-	-	6	6	6	-	-	-	15	15	15
New Hampshire-----	-	-	-	5	5	5	-	-	-	8	8	8
New Jersey-----	-	-	-	53	53	53	-	-	-	36	36	36
New Mexico-----	-	-	-	7	7	7	-	-	-	5	5	5
New York-----	2	-	2	52	54	56	1	-	2	68	70	71
North Carolina-----	-	-	1	24	25	25	1	-	1	43	44	45
Ohio-----	-	-	3	97	100	100	-	-	4	126	130	130
Oklahoma-----	-	-	2	38	40	40	-	-	-	36	36	36
Oregon-----	1	-	-	41	41	42	-	-	1	41	42	42
Pennsylvania-----	4	-	7	125	132	136	1	-	7	134	141	142
Rhode Island-----	-	-	-	1	1	1	-	-	-	1	1	1
South Carolina-----	1	-	-	11	11	12	1	-	-	12	12	13
South Dakota-----	1	-	-	26	26	27	-	-	-	5	5	5
Tennessee-----	3	-	4	59	63	66	1	-	7	65	72	73
Texas-----	1	-	2	116	118	119	1	1	5	123	129	130
Utah-----	-	-	-	7	7	7	-	-	-	4	4	4
Vermont-----	-	-	2	47	49	49	-	-	2	28	30	30
Virginia-----	3	-	2	68	70	73	-	-	1	77	78	78
Washington-----	-	-	1	22	23	23	-	-	1	12	13	13
West Virginia-----	-	-	1	31	32	32	1	-	3	17	20	21
Wisconsin-----	-	-	-	59	59	59	2	-	1	37	38	40
Wyoming-----	1	-	-	1	1	2	-	-	-	4	4	4
Total-----	29	-	42	1,723	1,765	1,794	14	1	71	1,829	1,901	1,915

^{1/} No injuries were reported at stone quarries and mills for States not listed.

TABLE A-9. - Nonfatal injuries by general work location and main cause at stone quarries and mills in the United States, by State 1/1, 1970 - Continued

State	Open quarries										Other surface mining														
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total, open quarries	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Striking or bumping against objects	Haulage	Machinery	Miscellaneous causes	Total, other surface mining	
Alabama-----	-	-	3	3	1	2	-	1	-	-	-	3	-	1	14	-	-	1	1	-	-	-	-	-	2
Alaska-----	-	1	1	4	2	1	-	4	-	-	-	2	-	1	14	-	-	-	-	-	-	-	-	-	18
Arizona-----	-	-	1	4	1	1	-	2	-	-	-	2	-	1	6	-	-	-	-	-	-	-	-	-	14
Arkansas-----	-	-	4	13	1	1	-	2	-	-	-	2	-	1	29	-	-	-	-	-	-	-	-	-	6
California-----	-	-	18	14	3	2	-	5	-	3	1	5	-	2	55	-	-	1	1	-	-	-	-	-	33
Colorado-----	-	1	2	3	1	-	-	2	-	-	-	3	-	-	11	-	-	-	-	-	-	-	-	-	70
Connecticut-----	-	1	3	3	1	-	-	5	-	-	-	3	-	-	16	-	-	-	-	-	-	-	-	-	11
Florida-----	-	-	15	19	6	1	-	10	-	-	-	3	-	1	33	-	-	1	1	-	2	-	-	-	16
Georgia-----	-	-	14	20	4	1	-	12	-	-	-	5	-	4	93	-	-	-	-	-	-	-	-	-	38
Hawaii-----	-	1	6	13	2	1	-	1	-	-	-	3	-	-	35	-	-	-	-	-	-	-	-	-	97
Idaho-----	1	-	1	1	1	-	-	1	-	1	-	19	-	1	53	-	-	-	-	-	-	-	-	-	5
Illinois-----	1	1	11	10	5	-	-	8	-	1	1	8	-	5	54	-	-	-	-	-	-	-	-	-	54
Indiana-----	-	16	10	11	6	-	-	15	-	1	-	5	-	1	46	-	-	-	-	-	-	-	-	-	52
Iowa-----	-	11	11	11	3	1	-	2	-	-	-	5	-	2	19	-	-	-	-	-	-	-	-	-	25
Kansas-----	-	1	9	17	3	3	-	13	-	-	-	7	-	2	53	-	2	10	1	3	4	2	1	-	79
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	23
Louisiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Maryland-----	1	2	13	15	4	2	1	6	-	2	1	6	-	3	54	-	-	-	-	-	-	-	-	-	54
Massachusetts-----	-	-	4	2	2	1	-	2	-	2	1	3	-	3	14	-	-	-	-	-	-	-	-	-	14
Michigan-----	-	2	5	7	3	-	-	6	-	1	1	2	-	2	23	-	-	-	-	-	-	-	-	-	24
Minnesota-----	-	-	5	7	2	-	1	2	1	-	-	2	-	2	22	-	-	-	-	-	-	-	-	-	22
Mississippi-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Missouri-----	1	3	8	25	4	1	1	7	-	2	-	9	-	1	62	-	-	-	-	-	-	-	-	-	70
Montana-----	-	-	2	2	2	1	-	4	-	-	-	3	-	-	12	-	-	-	-	-	-	-	-	-	12
Nebraska-----	-	-	2	2	2	-	-	5	-	-	-	1	-	-	12	-	-	-	-	-	-	-	-	-	13
Nevada-----	-	-	2	2	-	-	-	2	-	-	-	1	-	1	6	-	-	-	-	-	-	-	-	-	6
New Hampshire-----	-	1	1	-	1	-	-	-	-	-	-	1	-	2	5	-	5	-	-	-	-	-	-	-	5
New Jersey-----	-	3	8	21	5	1	-	7	-	-	-	2	-	6	53	-	-	-	-	-	-	-	-	-	53
New Mexico-----	-	2	2	2	-	-	-	-	-	-	1	1	-	1	7	-	-	-	-	-	-	-	-	-	7
New York-----	-	1	14	12	-	3	-	1	1	-	1	1	-	8	54	-	-	-	-	-	-	-	-	-	54
North Carolina-----	-	3	4	10	4	2	-	2	1	1	-	8	-	9	25	-	-	-	-	-	-	-	-	-	25
Ohio-----	1	5	17	27	3	2	2	22	-	-	-	12	-	9	99	-	-	-	-	-	-	-	-	-	100
Oklahoma-----	1	1	4	14	-	-	-	8	1	-	-	4	-	1	39	-	-	-	-	-	-	-	-	-	40
Oregon-----	-	5	20	1	1	-	-	1	-	-	1	4	-	10	41	-	-	-	-	-	-	-	-	-	41
Pennsylvania-----	1	1	19	35	10	3	1	20	-	-	1	13	-	1	113	-	-	-	-	-	-	-	-	-	132
Rhode Island-----	-	-	-	2	-	1	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1
South Carolina-----	-	1	9	9	-	1	-	3	-	1	-	-	-	1	11	-	-	-	-	-	-	-	-	-	11
South Dakota-----	-	1	12	15	3	1	1	16	-	-	-	11	-	2	26	-	-	-	-	-	-	-	-	-	26
Tennessee-----	-	2	24	20	9	2	-	13	-	-	2	14	-	4	83	-	-	-	-	-	-	-	-	-	66
Texas-----	-	1	1	14	7	1	-	1	-	2	-	7	-	5	87	-	6	7	3	3	4	4	3	-	31
Utah-----	-	1	10	16	7	1	-	1	-	-	-	-	-	42	7	-	-	-	-	-	-	-	-	-	49
Vermont-----	-	1	9	17	8	1	-	11	-	1	1	16	-	-	66	-	-	-	-	-	-	-	-	-	70
Virginia-----	-	1	1	1	1	1	-	3	-	1	-	3	-	-	23	-	-	-	-	-	-	-	-	-	23
West Virginia-----	1	3	2	7	3	1	-	7	-	-	-	4	-	3	24	-	-	-	-	-	-	-	-	-	32
Wisconsin-----	-	1	7	3	-	-	-	1	-	-	-	3	-	4	59	-	-	-	-	-	-	-	-	-	59
Wyoming-----	1	1	11	18	3	4	3	11	-	-	-	-	-	4	1	-	-	-	-	-	-	-	-	-	1
Total-----	8	35	317	457	109	37	11	274	3	16	10	213	4	87	1,581	1	8	20	5	6	10	6	4	60	1,765

1/ No nonfatal injuries were reported at stone quarries and mills for States not listed.

TABLE A-9. - Nonfatal injuries by general work location and main cause at stone quarries and mills in the United States, by State 1/1, 1970 - Continued

State	Mills														Grand total
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis	Total, mills	
Alabama-----	-	7	12	-	-	1	4	-	2	10	-	-	-	36	54
Alaska-----	-	-	-	-	-	-	-	1	-	2	-	-	-	3	17
Arizona-----	-	-	20	2	1	-	1	-	-	-	-	-	-	3	9
Arkansas-----	-	6	20	-	-	-	5	-	-	5	-	4	-	44	77
California-----	2	13	21	-	2	1	5	-	1	10	-	9	-	64	134
Colorado-----	-	3	3	-	-	-	1	-	-	-	-	-	-	8	19
Connecticut-----	-	3	7	-	-	2	-	-	-	-	-	-	-	1	14
Florida-----	1	15	23	2	1	-	9	-	1	8	-	3	-	63	121
Georgia-----	4	16	41	6	2	2	7	-	1	15	-	6	-	98	165
Hawaii-----	1	4	9	1	2	-	4	-	1	-	-	-	-	25	57
Idaho-----	1	1	1	-	-	-	-	-	1	-	-	-	-	4	9
Illinois-----	2	26	29	3	1	3	8	-	1	23	-	13	-	109	173
Indiana-----	1	18	16	5	-	-	6	-	1	11	-	5	-	59	113
Iowa-----	-	9	14	-	-	-	9	-	-	10	-	5	-	47	99
Kansas-----	1	3	7	3	1	-	-	-	1	8	-	-	-	26	51
Kentucky-----	-	9	11	-	-	1	1	-	-	5	-	4	-	32	111
Louisiana-----	-	6	6	4	-	-	1	-	-	3	-	5	-	26	49
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Maryland-----	-	10	10	4	2	-	5	-	-	5	1	6	-	43	97
Massachusetts-----	-	5	11	5	1	-	2	-	-	4	-	4	-	32	46
Michigan-----	3	6	7	1	1	-	2	-	-	8	-	3	1	33	77
Minnesota-----	-	10	26	1	1	4	3	-	-	6	-	1	-	51	73
Mississippi-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Missouri-----	6	23	35	7	-	3	13	1	2	12	2	17	-	121	191
Montana-----	-	1	4	-	-	-	-	-	-	3	-	-	-	9	21
Nebraska-----	1	2	5	-	1	2	2	-	-	2	-	1	-	18	31
Nevada-----	1	3	5	1	-	-	-	-	-	-	-	-	-	15	21
New Hampshire-----	1	-	-	-	-	-	-	-	-	-	-	-	-	8	13
New Jersey-----	2	7	16	-	-	-	1	-	1	4	-	5	-	36	89
New Mexico-----	1	1	3	-	-	-	-	-	-	-	-	-	-	5	12
New York-----	6	14	22	5	1	3	-	-	4	12	-	3	-	70	124
North Carolina-----	-	12	24	2	1	1	2	-	-	1	-	-	-	44	69
Ohio-----	7	28	34	8	1	1	1	2	1	15	-	19	-	130	230
Oklahoma-----	1	6	15	2	1	1	3	-	-	2	-	5	-	36	76
Oregon-----	2	9	12	3	2	4	-	-	-	7	-	3	-	42	83
Pennsylvania-----	3	26	52	11	-	2	12	2	2	15	-	16	-	141	273
Rhode Island-----	-	-	1	-	-	-	-	-	-	-	-	-	-	1	2
South Carolina-----	-	2	5	2	-	-	1	-	-	1	-	1	-	12	23
South Dakota-----	-	7	3	-	-	-	-	-	-	-	-	-	-	5	31
Tennessee-----	1	7	30	1	3	1	6	-	1	15	1	6	-	72	135
Texas-----	1	23	39	9	3	1	12	-	1	17	5	18	-	129	247
Utah-----	-	2	17	-	-	-	-	-	-	-	-	-	-	4	11
Vermont-----	-	6	17	5	-	-	-	-	-	1	-	1	-	30	79
Virginia-----	3	16	23	10	1	-	9	-	-	10	-	8	-	78	148
Washington-----	-	3	2	2	-	-	-	-	-	5	-	1	-	13	36
West Virginia-----	-	3	4	6	-	-	1	-	-	2	-	2	-	20	52
Wisconsin-----	-	4	13	2	-	3	2	-	-	8	-	6	-	38	97
Wyoming-----	-	2	1	-	-	-	-	-	-	1	-	-	-	4	5
Total-----	52	370	647	114	25	40	155	6	20	277	10	184	1	1,901	3,666

1/ No nonfatal injuries were reported at stone quarries and mills for States not listed.

TABLE A-10. - Injuries by general work location and main cause at stone quarries and mills in the United States, by degree of injury and kind of stone, 1970

Degree of injury and kind of stone	Underground mines																	
	Underground														Surface			
	Falls of roof or back	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total, underground	Handling material	Haulage	Machinery	Miscellaneous causes
Fatal and nonfatal:																		
Cement ^{1/} -----	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	3	-	1	9	14	6	-	-	4	-	4	1	1	43	11	19	4	3
Limestone (chief product, lime)-	2	-	-	4	3	2	-	1	1	1	5	2	2	23	-	-	-	-
Marble-----	1	1	-	3	4	2	-	1	-	-	-	-	-	12	-	-	-	-
Sandstone-----	-	-	-	1	1	-	1	-	-	1	-	-	-	4	2	1	-	3
Slate-----	1	-	-	-	3	-	-	-	-	-	-	-	-	4	-	-	-	-
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	7	1	1	17	25	10	1	2	5	2	10	3	3	87	13	20	4	3
Fatal:																		
Cement ^{1/} -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	2
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	2
Permanent total:																		
Cement ^{1/} -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Permanent partial:																		
Cement ^{1/} -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone (chief product, lime)-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1
Temporary total:																		
Cement ^{1/} -----	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	2	-	1	9	14	6	-	-	4	-	4	1	1	42	11	17	4	3
Limestone (chief product, lime)-	2	-	-	4	3	1	-	1	1	1	5	2	2	22	-	-	-	-
Marble-----	1	1	-	3	4	2	-	1	-	-	-	-	-	12	-	-	-	-
Sandstone-----	-	-	-	1	1	-	1	-	-	1	-	-	-	4	2	1	-	3
Slate-----	1	-	-	-	3	-	-	-	-	-	-	-	-	4	-	-	-	-
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	6	1	1	17	25	9	1	2	5	2	10	3	3	85	13	18	4	3

^{1/} Includes limestone or other stones used in manufacturing cement.

TABLE A-10. - Injuries by general work location and main cause at stone quarries and mills in the United States, by degree of injury and kind of stone, 1970 - Continued

Degree of injury and kind of stone	Open quarries															Other surface mining										Total, mining activities
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis	Total, open quarries	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Haulage	Machinery	Miscellaneous causes	Total, other surface mining	
Fatal and nonfatal:																										
Cement 1/-----	-	1	12	15	5	1	-	13	-	-	3	5	-	2	-	57	-	-	1	-	-	-	-	-	1	59
Granite-----	2	5	49	68	18	6	3	25	2	4	2	23	1	21	1	230	-	-	-	-	-	-	-	-	-	230
Limestone-----	4	18	174	210	49	22	6	170	-	8	6	121	3	37	-	828	1	9	19	5	6	11	6	4	61	969
Limestone (chief product, lime)-	-	2	11	26	3	-	1	19	-	-	-	8	-	11	-	81	-	-	-	-	-	-	-	-	-	104
Marble-----	-	3	6	5	2	-	-	-	-	-	-	6	-	-	-	22	-	-	-	-	-	-	-	-	-	34
Sandstone-----	1	1	22	41	15	1	1	16	-	2	1	24	-	5	-	130	-	-	-	-	-	-	-	-	-	137
Slate-----	-	1	5	10	-	-	-	2	-	1	-	2	-	1	-	22	-	-	-	-	-	-	-	-	-	26
Traprock-----	3	5	30	65	11	6	-	26	1	2	1	24	-	9	-	183	-	-	-	-	-	-	-	-	-	183
Miscellaneous stone-----	-	-	8	18	6	1	-	12	-	1	-	5	-	1	-	52	-	-	-	-	-	-	-	-	-	52
Total-----	10	36	317	458	109	37	11	283	3	18	13	218	4	87	1	1,605	1	9	20	5	6	11	6	4	62	1,794
Fatal:																										
Cement 1/-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Granite-----	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	3	-	-	-	-	-	-	-	-	-	3
Limestone-----	-	1	-	-	-	-	-	3	-	1	2	4	-	-	-	11	-	1	-	-	-	1	-	-	2	16
Limestone (chief product, lime)-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Slate-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Traprock-----	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Miscellaneous stone-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total-----	2	1	-	1	-	-	-	9	-	2	3	5	-	-	1	24	-	1	-	-	-	1	-	-	2	29
Permanent total:																										
Cement 1/-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Permanent partial:																										
Cement 1/-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Granite-----	-	-	1	2	-	-	-	1	-	-	-	3	-	-	-	7	-	-	-	-	-	-	-	-	-	7
Limestone-----	-	-	1	10	-	-	-	4	-	-	-	7	-	-	-	22	-	-	-	-	-	1	-	-	1	23
Limestone (chief product, lime)-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-	-	4
Marble-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sandstone-----	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Slate-----	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Traprock-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	4	16	-	-	-	7	-	-	-	13	-	-	-	40	-	-	-	-	-	1	-	-	1	42
Temporary total:																										
Cement 1/-----	-	1	12	14	5	1	-	13	-	-	2	5	-	2	-	55	-	-	1	-	-	-	-	-	1	57
Granite-----	2	5	48	66	18	6	3	23	2	3	2	20	1	21	-	220	-	-	-	-	-	-	-	-	-	220
Limestone-----	4	17	173	200	49	22	6	163	-	7	4	110	3	37	-	795	1	8	19	5	6	9	6	4	58	930
Limestone (chief product, lime)-	-	2	11	25	3	-	1	17	-	-	-	7	-	11	-	77	-	-	-	-	-	-	-	-	-	99
Marble-----	-	3	6	4	2	-	-	-	-	-	-	6	-	-	-	21	-	-	-	-	-	-	-	-	-	33
Sandstone-----	-	1	21	40	15	1	1	14	-	2	1	23	-	5	-	124	-	-	-	-	-	-	-	-	-	131
Slate-----	-	1	5	10	-	-	-	-	-	-	1	-	1	1	-	19	-	-	-	-	-	-	-	-	-	23
Traprock-----	2	5	29	65	11	6	-	25	1	2	1	23	-	9	-	179	-	-	-	-	-	-	-	-	-	179
Miscellaneous stone-----	-	-	8	17	6	1	-	12	-	1	-	5	-	1	-	51	-	-	-	-	-	-	-	-	-	51
Total-----	8	35	313	441	109	37	11	267	3	16	10	200	4	87	-	1,541	1	8	20	5	6	9	6	4	59	1,723

1/ Includes limestone or other stones used in manufacturing cement.

TABLE A-10. - Injuries by general work location and main cause at stone quarries and mills in the United States,
by degree of injury and kind of stone, 1970 - Continued

Degree of injury and kind of stone	Mills													Grand total	
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis		Total, mills
Fatal and nonfatal:															
Cement $\frac{1}{2}$ -----	11	79	86	12	6	8	21	-	6	44	3	32	-	308	367
Granite-----	5	35	97	10	1	8	12	1	1	21	-	13	-	204	434
Limestone-----	18	136	234	50	12	10	63	1	8	127	4	42	-	705	1,674
Limestone (chief product, lime)-	4	50	55	12	2	3	32	4	2	31	1	72	1	269	373
Marble-----	4	13	62	2	-	2	3	-	1	12	2	5	-	106	140
Sandstone-----	5	32	54	15	1	5	18	-	2	22	-	9	-	163	300
Slate-----	-	1	16	1	-	-	2	-	-	2	-	2	-	24	50
Trap rock-----	2	23	29	11	1	4	4	-	1	18	-	6	-	99	282
Miscellaneous stone-----	3	4	16	1	2	-	3	-	-	5	-	3	-	37	89
Total-----	52	373	649	114	25	40	158	6	21	282	10	184	1	1,915	3,709
Fatal:															
Cement $\frac{1}{2}$ -----	-	2	1	-	-	-	-	-	-	-	-	-	-	3	4
Granite-----	-	-	-	-	-	-	1	-	-	1	-	-	-	2	5
Limestone-----	-	1	1	-	-	-	2	-	1	3	-	-	-	8	24
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	1	-	-	-	1	4
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Trap rock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total-----	-	3	2	-	-	-	3	-	1	5	-	-	-	14	43
Permanent total:															
Cement $\frac{1}{2}$ -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trap rock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1
Permanent partial:															
Cement $\frac{1}{2}$ -----	-	1	6	2	-	-	-	-	-	8	-	1	-	18	19
Granite-----	-	-	3	-	-	-	-	-	-	2	-	-	-	5	12
Limestone-----	-	-	9	3	-	-	3	-	-	10	-	1	-	26	49
Limestone (chief product, lime)-	-	-	2	-	-	-	-	-	-	5	-	-	-	7	11
Marble-----	-	-	4	-	-	-	-	-	-	1	-	-	-	5	6
Sandstone-----	1	-	2	-	-	-	1	-	-	3	-	-	-	7	10
Slate-----	-	-	1	-	-	-	1	-	-	-	-	-	-	2	4
Trap rock-----	-	-	1	-	-	-	-	-	-	-	-	-	-	1	2
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	1	1	28	5	-	-	5	-	-	29	-	2	-	71	113
Temporary total:															
Cement $\frac{1}{2}$ -----	11	76	79	10	6	8	21	-	6	36	3	31	-	287	344
Granite-----	5	35	94	10	1	8	11	1	1	18	-	13	-	197	417
Limestone-----	18	135	224	47	12	10	58	1	6	114	4	41	-	670	1,600
Limestone (chief product, lime)-	4	50	53	12	2	3	32	4	2	26	1	72	1	262	361
Marble-----	4	13	58	2	-	2	3	-	1	11	2	5	-	101	134
Sandstone-----	4	32	52	15	1	5	17	-	2	18	-	9	-	155	286
Slate-----	-	1	15	1	-	-	1	-	-	2	-	2	-	22	45
Trap rock-----	2	23	28	11	1	4	4	-	1	18	-	6	-	98	277
Miscellaneous stone-----	3	4	16	1	2	-	3	-	-	5	-	3	-	37	88
Total-----	51	369	619	109	25	40	150	6	19	248	10	182	1	1,829	3,552

^{1/} Includes limestone or other stones used in manufacturing cement.

TABLE A-11. - Injuries by general work location and main cause at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, degree of injury, and kind of stone ^{1/}, 1970

Degree of injury and kind of stone	Underground mines																		
	Underground													Surface					Total, underground mines
	Falls of roof or back	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total, underground	Handling material	Haulage	Machinery	Miscellaneous causes	
Dimension stone:																			
Fatal:																			
Granite-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sandstone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Slate-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total-----	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Permanent partial:																			
Granite-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Limestone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Marble-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sandstone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Slate-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total-----	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Temporary total:																			
Granite-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Limestone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Marble-----	1	1	1	2	3	2	1	1	1	1	1	1	1	9	1	1	1	1	2
Sandstone-----	1	1	1	1	3	1	1	1	1	1	1	1	1	4	1	1	1	1	9
Slate-----	1	1	1	1	3	1	1	1	1	1	1	1	1	4	1	1	1	1	4
Traprock-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Miscellaneous stone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total-----	2	2	2	2	7	2	1	2	2	2	2	2	2	14	2	1	2	2	15
Crushed and broken stone ² :																			
Fatal:																			
Cement ³ -----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Granite-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Limestone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	3
Limestone (chief product, lime)-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Marble-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sandstone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Traprock-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Miscellaneous stone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	3
Permanent total:																			
Limestone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Permanent partial:																			
Cement ³ -----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Granite-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Limestone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Limestone (chief product, lime)-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Marble-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sandstone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Slate-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Traprock-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total-----	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Temporary total:																			
Cement ³ -----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Granite-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Limestone-----	2	1	9	13	6	1	4	4	4	4	1	1	41	11	16	4	3	34	75
Limestone (chief product, lime)-	2	1	4	3	1	1	1	1	5	2	2	2	22	3	1	1	1	22	22
Marble-----	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	3
Sandstone-----	1	1	1	1	1	1	1	1	1	1	1	1	4	2	1	1	3	7	7
Slate-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Traprock-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Miscellaneous stone-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total-----	4	1	1	15	18	7	1	1	5	2	10	3	3	71	13	17	4	3	108
Grand total:																			
Fatal-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	3
Permanent total-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Permanent partial-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Temporary total-----	6	1	1	17	25	9	1	2	5	2	10	3	3	85	13	18	4	3	123
Total nonfatal-----	6	1	1	17	25	10	1	2	5	2	10	3	3	86	13	18	4	3	124

^{1/} No injuries occurred in stones not listed.^{2/} Same as nondimension stone.^{3/} Includes limestone or other stones used in manufacturing cement.

TABLE A-11. - Injuries by general work location and main cause at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, degree of injury, and kind of stone *1*, 1970 - Continued

Degree of injury and kind of stone	Open quarries															Other surface mining										
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis	Total, open quarries	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Striking or bumping against objects	Haulage	Machinery	Miscellaneous causes	Total, other surface mining	Total, mining activities
Dimension stone:																										
Fatal:																										
Granite-----	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sandstone-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Permanent partial:																										
Granite-----	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Limestone-----	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate-----	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	4	-	-	-	2	-	-	-	1	-	-	-	7	-	-	-	-	-	-	-	-	-	7
Temporary total:																										
Granite-----	2	3	28	36	11	3	3	5	2	3	1	9	-	11	-	117	-	-	-	-	-	-	-	-	-	117
Limestone-----	-	-	15	10	5	-	-	4	-	-	1	7	-	3	-	45	-	-	-	-	-	-	-	-	-	47
Marble-----	-	3	4	4	1	-	-	-	-	-	-	4	-	-	-	16	-	-	-	-	-	-	-	-	-	25
Sandstone-----	-	-	6	10	4	1	-	3	-	-	-	9	-	-	-	33	-	-	-	-	-	-	-	-	-	33
Slate-----	-	1	5	10	-	-	-	-	-	1	-	1	-	1	-	19	-	-	-	-	-	-	-	-	-	23
Traprock-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Miscellaneous stone-----	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	5
Total-----	2	7	58	76	21	4	3	12	2	4	2	30	-	15	-	236	-	-	-	-	-	-	-	-	-	251
Crushed and broken stone <i>2</i> :																										
Fatal:																										
Cement <i>3</i> -----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Granite-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	2
Limestone-----	-	1	-	-	-	-	-	3	-	1	2	4	-	-	-	11	-	1	-	-	-	1	-	2	-	16
Limestone (chief product, lime)-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Traprock-----	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Miscellaneous stone-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total-----	2	1	-	1	-	-	-	8	-	1	3	5	-	-	1	22	-	1	-	-	-	1	-	-	2	27
Permanent total:																										
Limestone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Permanent partial:																										
Cement <i>3</i> -----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Granite-----	-	-	1	-	-	-	-	-	-	-	-	3	-	-	-	4	-	-	-	-	-	-	-	-	-	4
Limestone-----	-	-	1	8	-	-	-	4	-	-	-	7	-	-	-	20	-	-	-	-	-	1	-	1	-	21
Limestone (chief product, lime)-----	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	-	4
Marble-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sandstone-----	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total-----	-	-	4	12	-	-	-	5	-	-	-	12	-	-	-	33	-	-	-	-	-	1	-	-	1	35
Temporary total:																										
Cement <i>3</i> -----	-	1	12	14	5	1	-	13	-	-	2	5	-	2	-	55	-	-	1	-	-	-	-	-	1	57
Granite-----	-	2	20	30	7	3	-	18	-	-	1	11	1	10	-	103	-	-	-	-	-	-	-	-	-	103
Limestone-----	4	17	158	190	44	22	6	159	-	7	3	103	3	34	-	750	1	8	19	5	6	9	6	4	58	883
Limestone (chief product, lime)-----	-	2	11	25	3	-	1	17	-	-	-	7	-	11	-	77	-	-	-	-	-	-	-	-	-	99
Marble-----	-	-	2	-	1	-	-	-	-	-	-	2	-	-	-	5	-	-	-	-	-	-	-	-	-	8
Sandstone-----	-	1	15	30	11	-	1	11	-	2	1	14	-	-	-	91	-	-	-	-	-	-	-	-	-	98
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock-----	2	5	29	64	11	6	-	25	1	2	1	23	-	9	-	178	-	-	-	-	-	-	-	-	-	178
Miscellaneous stone-----	-	-	8	12	6	1	-	12	-	1	-	5	-	1	-	46	-	-	-	-	-	-	-	-	-	46
Total-----	6	28	255	365	88	33	8	255	1	12	8	170	4	72	-	1,305	1	8	20	5	6	9	6	4	59	1,472
Grand total:																										
Fatal-----	2	1	-	1	-	-	-	9	-	2	3	5	-	-	1	24	-	1	-	-	-	1	-	-	2	29
Permanent total-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Permanent partial-----	-	-	4	16	-	-	-	7	-	-	-	13	-	-	-	40	-	-	-	-	-	1	-	-	1	42
Temporary total-----	8	35	313	441	109	37	11	267	3	16	10	200	4	87	-	1,541	1	8	20	5	6	9	6	4	59	1,723
Total nonfatal-----	8	35	317	457	109	37	11	274	3	16	10	213	4	87	-	1,581	1	8	20	5	6	10	6	4	60	1,765

1 No injuries occurred in stones not listed.

2 Same as nondimension stone.

3 Includes limestone or other stones used in manufacturing cement.

TABLE A-11. - Injuries by general work location and main cause at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, degree of injury, and kind of stone ^{1/}, 1970 - Continued

Degree of injury and kind of stone	Mills														Grand total
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis	Total, mills	
Dimension stone:															
Fatal:															
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Sandstone-----	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total-----	-	-	-	-	-	-	-	-	-	1	-	-	-	1	3
Permanent partial:															
Granite-----	-	-	2	-	-	-	-	-	-	1	-	-	-	3	6
Limestone-----	-	-	3	-	-	-	-	-	-	2	-	-	-	5	7
Marble-----	-	-	4	-	-	-	-	-	-	-	-	-	-	4	4
Sandstone-----	-	-	1	-	-	-	-	-	-	1	-	-	-	2	2
Slate-----	-	-	1	-	-	-	-	-	-	-	-	-	-	1	3
Total-----	-	-	11	-	-	-	-	-	-	4	-	-	-	15	22
Temporary total:															
Granite-----	4	21	58	7	1	7	3	-	-	7	-	6	-	114	231
Limestone-----	-	8	20	2	-	1	2	-	-	10	-	-	-	43	90
Marble-----	3	9	38	1	-	2	-	-	-	1	-	2	-	56	81
Sandstone-----	2	6	10	6	-	-	-	-	1	2	-	-	-	27	60
Slate-----	-	1	13	1	-	-	1	-	-	2	-	1	-	19	42
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Miscellaneous stone-----	-	-	3	-	-	-	-	-	-	1	-	-	-	4	9
Total-----	9	45	142	17	1	10	6	-	1	23	-	9	-	263	514
Crushed and broken stone ² :															
Fatal:															
Cement ³ -----	-	2	1	-	-	-	-	-	-	-	-	-	-	3	4
Granite-----	-	-	-	-	-	-	1	-	-	1	-	-	-	2	4
Limestone-----	-	1	1	-	-	-	2	-	1	3	-	-	-	8	24
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total-----	-	3	2	-	-	-	3	-	1	4	-	-	-	13	40
Permanent total:															
Limestone-----	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1
Total-----	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1
Permanent partial:															
Cement ³ -----	-	1	6	2	-	-	-	-	-	8	-	1	-	18	19
Granite-----	-	-	1	-	-	-	-	-	-	1	-	-	-	2	6
Limestone-----	-	-	6	3	-	-	3	-	-	8	-	1	-	21	42
Limestone (chief product, lime)-	-	-	2	-	-	-	-	-	-	5	-	-	-	7	11
Marble-----	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2
Sandstone-----	1	-	1	-	-	-	1	-	-	2	-	-	-	5	8
Slate-----	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1
Traprock-----	-	-	1	-	-	-	-	-	-	-	-	-	-	1	2
Total-----	1	1	17	5	-	-	5	-	-	25	-	2	-	56	91
Temporary total:															
Cement ³ -----	11	76	79	10	6	8	21	-	6	36	3	31	-	287	344
Granite-----	1	14	36	3	-	1	8	1	1	11	-	7	-	83	186
Limestone-----	18	127	204	45	12	9	56	1	6	104	4	41	-	627	1,510
Limestone (chief product, lime)-	4	50	53	12	2	3	32	4	2	26	1	72	1	262	361
Marble-----	1	4	20	1	-	-	3	-	1	10	2	3	-	45	53
Sandstone-----	2	26	42	9	1	5	17	-	1	16	-	9	-	128	226
Slate-----	-	-	2	-	-	-	-	-	-	-	-	1	-	3	3
Traprock-----	2	23	28	11	1	4	4	-	1	18	-	6	-	98	276
Miscellaneous stone-----	3	4	13	1	2	-	3	-	-	4	-	3	-	33	79
Total-----	42	324	477	92	24	30	144	6	18	225	10	173	1	1,566	3,038
Grand total:															
Fatal-----	-	3	2	-	-	-	3	-	1	5	-	-	-	14	43
Permanent total-----	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1
Permanent partial-----	1	1	28	5	-	-	5	-	-	29	-	2	-	71	113
Temporary total-----	51	369	619	109	25	40	150	6	19	248	10	182	1	1,829	3,552
Total nonfatal-----	52	370	647	114	25	40	155	6	20	277	10	184	1	1,901	3,666

^{1/} No injuries occurred in stones not listed.^{2/} Same as nondimension stone.^{3/} Includes limestone or other stones used in manufacturing cement.

TABLE A-12. - Injury experience and worktime data at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and kind of stone, 1970 - Continued

Kind of stone	Active operations			Average men working daily			Average days active			Man-days worked			Man-hours worked		
	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total
Dimension stone:															
Cement 1/	145	76	221	1,177	1,869	3,046	236	247	242	277,220	461,336	738,556	2,273,434	3,966,405	6,239,839
Granite-	291	65	170	734	791	1,525	214	234	224	156,747	184,959	341,706	1,262,280	1,479,653	2,741,933
Limestone-	105	65	170	734	791	1,525	214	234	224	156,747	184,959	341,706	1,262,280	1,479,653	2,741,933
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marble-	30	14	44	449	1,018	1,467	232	249	244	103,945	253,596	357,541	848,832	2,012,758	2,861,590
Sandstone-	185	67	252	460	521	981	190	231	212	87,219	120,452	207,671	699,551	962,931	1,662,482
Slate-	50	41	91	369	503	872	238	256	248	87,690	128,759	216,449	704,198	1,035,141	1,739,339
Traprock-	10	2	12	17	35	52	173	259	231	2,936	9,081	12,017	23,371	72,646	96,017
Miscellaneous stone-	30	8	38	96	162	258	222	227	225	21,331	36,811	58,142	171,911	295,036	466,947
Total or average-	555	273	828	3,302	4,899	8,201	223	244	236	737,088	1,194,994	1,932,082	5,983,577	9,824,570	15,808,147
Crushed and broken stone 2/:															
Cement 1/	206	192	398	2,920	18,220	21,140	261	330	320	760,697	6,010,990	6,771,687	6,136,653	48,210,791	54,347,444
Granite-	291	179	470	2,747	1,805	4,552	244	257	249	671,570	463,121	1,134,691	5,930,447	4,079,324	10,009,771
Limestone-	2,566	1,788	4,354	18,069	11,651	29,720	245	253	248	4,431,040	2,942,476	7,373,516	38,558,992	25,460,959	64,019,951
Limestone (chief product, lime)-	103	156	259	1,915	5,480	7,395	271	317	305	519,389	1,736,448	2,255,837	4,304,327	13,984,358	18,288,685
Marble-	69	36	105	272	556	828	251	262	258	68,237	145,590	213,827	576,902	1,301,080	1,877,982
Sandstone-	363	228	591	1,821	1,686	3,507	232	265	248	421,858	446,660	868,518	3,550,921	3,672,975	7,223,896
Slate-	9	7	16	36	188	224	239	289	281	8,621	54,340	62,961	72,694	438,877	511,571
Traprock-	676	392	1,068	3,164	1,666	4,830	225	237	229	710,867	395,075	1,105,942	5,891,606	3,275,905	9,167,511
Miscellaneous stone-	277	122	399	1,038	575	1,613	210	253	225	218,006	145,283	363,289	1,796,837	1,173,322	2,970,159
Total or average-	4,560	3,100	7,660	31,982	41,827	73,809	244	295	273	7,810,285	12,339,983	20,150,268	66,819,379	101,597,591	168,416,970
Grand total or average-	5,115	3,373	8,488	35,284	46,726	82,010	242	290	269	8,547,373	13,534,977	22,082,350	72,802,956	111,422,161	184,225,117

1/ Includes limestone or other stones used in manufacturing cement.

2/ Same as nondimension stone.

TABLE A-13. - Injury experience and worktime data on dimension stone and crushed and broken stone quarries and mills in the United States, by State, 1970

State	Dimension stone						Crushed and broken stone					
	Injuries		Frequency rates per million man-hours		Severity rates per million man-hours		Injuries		Frequency rates per million man-hours		Severity rates per million man-hours	
	Fatal	Nonfatal	Fatal	Nonfatal	Fatal	Nonfatal	Fatal	Nonfatal	Fatal	Nonfatal	Fatal	Nonfatal
Alabama-----	-	6	-	-	39.17	2,762	1	48	0.18	8.86	1,108	253
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	1	17	1.40	23.77	8,391	737
Arkansas-----	-	1	-	-	31.65	1,456	1	8	-	7.57	-	71
California-----	3	2	-	-	25.86	1,940	3	75	-	23.95	-	71
Colorado-----	-	7	-	-	27.43	635	3	127	.29	12.14	1,721	611
Connecticut-----	-	-	-	-	-	-	-	19	-	14.73	-	231
Florida-----	-	-	-	-	-	-	-	30	-	37.99	-	395
Georgia-----	1	62	0.59	-	36.57	1,424	3	121	.48	19.36	2,880	589
Hawaii-----	-	-	-	-	-	-	-	103	-	21.68	-	934
Idaho-----	-	-	-	-	-	-	-	57	-	44.91	-	1,558
Illinois-----	-	-	-	-	-	-	-	9	-	18.49	-	477
Indiana-----	-	-	-	-	-	-	3	173	.38	21.63	2,250	804
Iowa-----	-	57	-	-	33.13	1,997	1	56	.19	10.60	1,136	346
Kansas-----	-	-	-	-	85.09	1,319	1	95	.17	16.40	1,036	563
Kentucky-----	-	3	-	-	32.52	1,929	4	88	-	14.33	-	374
Louisiana-----	-	-	-	-	-	-	1	111	.24	26.21	1,417	1,112
Maine-----	-	-	-	-	-	-	4	49	-	29.47	-	1,132
Maryland-----	-	5	-	-	83.54	618	-	-	-	-	-	-
Massachusetts-----	-	-	-	-	49.11	246	-	92	-	28.27	-	166
Michigan-----	1	16	4.00	-	63.95	1,279	-	57	-	26.00	-	664
Minnesota-----	-	-	-	-	-	-	-	25	-	8.02	-	559
Mississippi-----	-	48	-	-	28.78	704	-	1	-	24.39	-	231
Missouri-----	-	-	-	-	-	-	-	162	.12	4.67	694	135
Montana-----	-	29	-	-	42.99	1,170	1	19	-	18.75	-	1,400
Nebraska-----	-	-	-	-	112.61	113	-	31	-	20.55	-	642
Nevada-----	-	12	-	-	41.52	374	-	21	-	30.85	-	835
New Hampshire-----	-	-	-	-	-	-	-	1	-	24.59	-	885
New Jersey-----	-	5	-	-	-	-	-	89	-	43.18	-	747
New Mexico-----	-	-	-	-	-	-	-	12	-	23.57	-	941
New York-----	-	5	-	-	17.86	550	3	119	.46	18.16	2,750	243
North Carolina-----	-	36	-	-	37.43	1,347	1	132	.29	9.34	1,755	232
North Dakota-----	-	-	-	-	-	-	-	4	-	-	-	-
Ohio-----	-	28	-	-	34.05	552	-	202	-	18.02	-	563
Oklahoma-----	-	15	-	-	63.20	1,304	1	83	.41	33.36	-	495
Oregon-----	-	-	-	-	-	-	-	232	.24	14.84	1,413	2570
Rhode Island-----	1	21	.92	-	19.41	709	4	2	-	23.04	-	1,082
South Carolina-----	-	-	-	-	-	-	-	21	1.03	10.79	6,165	374
South Dakota-----	-	24	-	-	49.15	526	2	1	1.72	12.01	10,292	271
Tennessee-----	-	-	-	-	36.70	854	4	118	.74	21.77	4,427	2,176
Texas-----	-	19	-	-	41.34	372	2	228	.19	21.48	1,131	1,166
Utah-----	-	-	-	-	-	-	-	11	-	13.77	-	598
Vermont-----	-	70	-	-	30.96	955	-	9	-	21.40	-	206
Virginia-----	-	16	-	-	22.28	383	3	132	.43	19.03	2,595	1,517
Washington-----	-	-	-	-	41.61	356	-	35	-	21.86	-	1,228
West Virginia-----	-	1	-	-	22.68	874	-	52	.41	21.21	2,447	778
Wisconsin-----	-	23	-	-	38.71	1,474	2	74	.79	29.14	14,640	300
Wyoming-----	-	-	-	-	-	-	1	5	2.44	12.20	-	213
Total or average-----	3	536	.19	-	33.91	1,139	40	3,130	.24	18.58	1,425	874
											73,809	168,416,970

TABLE A-14. - Injury experience and worktime data on stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and employment size group, 1970

Stone and size group	Injuries			Frequency rates per million man-hours			Severity rates per million man-hours			Active operations	Average men working daily	Average days active	Man-days worked	Man-hours worked
	Fatal		Total	Fatal		Total	Fatal		Total					
	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total					
Dimension stone:														
1-4-----	-	48	48	-	35.93	35.93	-	1,231	1,231	505	879	190	166,648	1,335,925
5-9-----	1	57	58	0.62	35.36	35.98	3,722	655	4,377	137	888	225	199,578	1,612,117
10-19-----	1	109	110	.39	42.91	43.30	2,362	1,572	3,934	94	1,286	239	307,138	2,540,489
20-34-----	1	89	90	.43	37.98	38.40	2,560	1,193	3,753	45	1,193	241	287,562	2,343,459
35-49-----	-	42	42	-	28.67	28.67	-	1,548	1,548	18	777	234	181,660	1,464,834
50-99-----	-	77	77	-	27.99	27.99	-	877	877	19	1,361	250	340,076	2,750,594
100-149-----	-	40	40	-	41.56	41.56	-	621	621	4	478	228	108,957	962,496
150-249-----	-	52	52	-	26.91	26.91	-	811	811	5	969	252	244,263	1,932,433
250 or more-----	-	22	22	-	25.41	25.41	-	736	736	1	370	260	96,200	865,800
Total or average-----	3	536	539	.19	33.91	34.10	1,139	1,074	2,212	828	8,201	236	1,932,082	15,808,147
Crushed and broken stone 1/2:														
1-4-----	5	485	490	.33	32.42	32.76	2,005	1,758	3,763	4,400	8,088	219	1,767,846	14,959,545
5-9-----	6	531	537	.30	26.90	27.20	1,824	1,379	3,203	1,483	9,684	237	2,293,789	19,741,450
10-19-----	12	681	693	.43	24.66	25.10	2,607	913	3,520	974	12,803	248	3,173,709	27,613,294
20-34-----	9	495	504	.40	21.98	22.38	2,398	998	3,396	393	9,831	268	2,634,085	22,519,550
35-49-----	2	202	204	.17	17.47	17.64	1,038	680	1,718	115	4,730	290	1,371,956	11,562,616
50-99-----	3	463	466	.09	13.46	13.55	523	707	1,231	196	13,821	306	4,231,834	34,385,789
100-149-----	3	182	185	.15	8.93	9.08	883	518	1,401	68	8,246	307	2,528,817	20,381,038
150-249-----	-	65	65	-	6.23	6.23	-	210	210	24	4,178	310	1,296,717	10,441,559
250 or more-----	-	26	26	-	3.82	3.82	-	164	164	7	2,428	351	851,515	6,812,129
Total or average-----	40	3,130	3,170	.24	18.58	18.82	1,425	874	2,299	7,660	73,809	273	20,150,268	168,416,970
Grand total or average-----	43	3,666	3,709	.23	19.90	20.13	1,400	891	2,292	8,488	82,010	269	22,082,350	184,225,117

^{1/2} Same as nondimension stone.

TABLE A-15. - Injury experience and worktime data by general work location at stone quarries and mills in the United States, by kind of stone, 1970

Kind of stone	Fatal						Nonfatal								
	Underground mines			Open quarries	Other surface mining	Total mining activities	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Grand total	
	Underground	Surface						Underground	Surface						Total
		Surface	Total						Surface	Total					
Injuries															
Cement ¹ -----	-	-	-	1	-	1	4	1	-	1	56	1	58	363	
Granite-----	-	-	3	3	-	5	24	42	35	77	227	-	227	429	
Limestone-----	1	2	3	11	2	16	8	-	-	-	817	59	953	1,650	
Limestone (chief product, lime)-----	-	-	-	1	-	1	1	23	80	23	103	-	103	372	
Marble-----	-	-	-	-	-	-	-	12	12	12	34	-	34	140	
Sandstone-----	-	-	-	3	-	3	4	3	7	7	127	-	134	296	
Slate-----	-	-	-	1	-	1	1	4	4	4	21	-	25	49	
Traprock-----	-	-	-	3	-	3	3	-	-	-	180	-	180	279	
Miscellaneous stone-----	-	-	-	1	-	1	1	-	-	-	51	-	51	88	
Total-----	1	2	3	24	2	29	43	86	38	124	1,581	60	1,765	3,666	
Frequency rates per million man-hours															
Cement ¹ -----	-	-	-	0.18	-	0.16	0.07	3.12	-	2.75	9.83	13.16	9.45	6.66	
Granite-----	-	-	-	.37	-	.37	.31	-	-	-	27.83	-	27.67	26.40	
Limestone-----	0.40	2.24	0.88	.31	1.39	.40	.36	16.68	39.18	22.58	23.36	40.88	23.93	24.71	
Limestone (chief product, lime)-----	-	-	-	.35	-	.23	.05	19.38	-	16.02	27.89	-	23.93	20.34	
Marble-----	-	-	-	-	-	-	-	26.99	-	21.84	25.11	-	23.85	29.54	
Sandstone-----	-	-	-	.74	-	.22	.45	24.85	59.42	33.10	31.44	-	31.53	33.31	
Slate-----	-	-	-	1.35	-	1.29	.44	152.39	-	112.17	28.33	-	32.18	21.77	
Traprock-----	-	-	-	.51	-	.51	.32	-	-	-	30.47	-	30.43	30.12	
Miscellaneous stone-----	-	-	-	.51	-	.51	.29	-	-	-	25.91	-	25.90	25.60	
Combined rate-----	.21	1.47	.50	.37	1.32	.40	.23	18.31	27.90	20.46	24.24	39.49	24.24	19.90	
Severity rates per million man-hours															
Cement ¹ -----	-	-	-	1,053	-	978	442	112	-	99	549	165	517	470	
Granite-----	-	-	-	2,207	-	2,194	1,846	-	-	-	1,874	-	1,864	1,251	
Limestone-----	2,384	13,433	5,278	1,887	8,314	2,411	2,157	294	1,043	490	1,097	1,024	1,043	1,147	
Limestone (chief product, lime)-----	-	-	-	2,091	-	1,394	328	405	-	335	763	-	620	605	
Marble-----	-	-	-	-	-	2,411	-	373	-	302	4,024	-	2,590	1,444	
Sandstone-----	-	-	-	4,457	-	4,235	2,701	1,348	1,010	997	997	-	1,010	1,027	
Slate-----	-	-	-	8,095	-	7,723	2,666	1,295	-	953	1,346	-	1,328	2,632	
Traprock-----	-	-	-	3,047	-	3,043	1,943	-	-	-	685	-	684	687	
Miscellaneous stone-----	-	-	-	3,048	-	3,048	1,746	-	-	-	818	-	818	703	
Combined rate-----	1,277	8,811	2,970	2,208	7,898	2,390	1,400	356	722	438	1,122	980	1,062	891	

¹ Includes limestone or other stones used in manufacturing cement.

TABLE A-15. - In lbf experience and worktime data by general work location at stone quarries and mills in the United States, by kind of stone, 1970 - Continued

Kind of stone	Active operations		Average men working daily							Average days active						
	Quarries	Mills	Underground mines				Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground		Surface	Total										
			Underground	Surface												
Cement <u>l</u> -----	206	192	172	24	196	2,686	38	2,920	18,220	21,140	232	263	250	261	330	
Granite-----	436	235	17	5	22	3,902	-	3,924	3,674	7,598	267	242	-	252	252	
Limestone-----	2,671	1,853	1,242	417	1,659	16,709	435	18,803	12,442	31,245	247	242	311	244	251	
Limestone (chief product, <u>lme</u>)-----	103	156	541	102	643	1,272	-	1,915	5,480	7,395	279	267	-	271	317	
Marble-----	99	50	195	47	242	479	-	721	1,574	2,295	265	225	-	239	247	
Sandstone-----	548	295	68	20	88	2,193	-	2,281	2,207	4,488	280	221	-	223	257	
Slate-----	59	48	13	5	18	387	-	405	691	1,096	229	238	-	235	265	
Traprock-----	686	394	2	1	3	3,178	-	3,181	1,701	4,882	277	224	-	224	238	
Miscellaneous stone-----	307	130	-	-	-	1,133	1	1,134	737	1,871	-	211	8	221	247	
Total or average-----	5,115	3,373	2,250	621	2,871	31,939	474	35,284	46,726	82,010	256	240	306	242	290	
Kind of stone	Underground mines		Man-days worked				Man-hours worked									
	Underground	Surface	Total	Open quarries	Other surface mining	Total mining activities	Grand total	Underground mines				Open quarries	Other surface mining	Total mining activities	Grand total	
								Underground		Surface	Total					
								Underground	Surface							
Cement <u>l</u> -----	39,988	5,462	45,450	705,752	9,495	760,697	6,771,687	320,157	43,448	363,605	5,697,085	75,963	6,136,653	48,210,791	54,347,444	
Granite-----	4,629	1,439	5,868	942,922	-	948,790	1,873,247	37,021	9,912	46,933	8,156,948	-	8,203,881	8,065,729	16,249,610	
Limestone-----	303,381	106,700	410,081	4,042,212	135,494	4,587,787	7,715,222	2,517,304	893,326	3,410,630	34,967,225	1,443,417	39,821,272	26,940,612	66,761,884	
Limestone (chief product, <u>lme</u>)-----	150,279	29,358	179,637	339,752	-	519,389	1,736,448	2,255,837	1,187,081	248,462	1,435,543	2,868,784	-	4,304,327	18,288,695	
Marble-----	51,892	12,281	64,173	108,009	-	172,182	399,186	571,368	444,689	104,882	549,571	876,163	-	1,425,734	4,739,572	
Sandstone-----	18,836	5,799	24,635	484,442	-	509,077	1,076,189	1,279,189	160,959	50,490	211,449	4,039,023	-	4,250,472	8,886,378	
Slate-----	3,056	1,074	4,130	92,181	-	96,311	183,099	269,410	35,659	9,410	45,069	5,908,322	-	5,914,977	2,250,910	
Traprock-----	582	250	832	712,971	-	713,803	404,156	1,117,959	4,655	2,000	6,655	5,908,322	-	5,914,977	3,253,528	
Miscellaneous stone-----	-	-	-	239,329	8	239,337	182,094	421,431	-	-	-	1,968,688	60	1,968,748	3,437,106	
Total-----	572,643	162,163	734,806	7,667,570	144,997	8,547,373	13,534,977	22,082,350	4,698,115	1,361,930	6,060,045	65,223,471	1,519,440	72,802,956	111,422,161	
															184,225,117	

l Includes limestone or other stones used in manufacturing cement.

TABLE A-16. - Injury experience and worktime data by general work location at cement operations in the United States, by State, 1970

State	Fatal						Nonfatal								
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Total mining activities	Mills	Grand total	
	Underground		Surface						Total	Underground	Surface				Total
	Underground	Surface													
Injuries															
Alabama-----	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5
California-----	-	-	-	-	-	1	-	1	6	-	-	8	21	29	29
Colorado-----	-	-	-	-	-	-	-	-	4	-	-	4	8	12	12
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
Georgia-----	-	-	-	-	-	-	-	-	1	-	-	1	13	14	14
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Idaho-----	-	-	-	-	-	-	-	-	2	-	-	2	8	10	10
Illinois-----	-	-	-	-	-	-	-	-	1	-	-	1	4	5	5
Indiana-----	-	-	-	-	-	1	-	1	2	-	-	2	8	10	10
Iowa-----	-	-	-	-	-	-	-	-	1	-	-	1	3	4	4
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
Louisiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5
Maryland-----	-	-	-	-	-	-	-	-	3	-	-	3	14	17	17
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota-----	-	-	-	-	-	-	-	-	1	-	-	1	1	1	1
Mississippi-----	-	-	-	-	-	-	-	-	2	-	-	2	24	26	26
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
Montana-----	-	-	-	-	-	-	-	-	1	-	-	1	7	8	8
Nebraska-----	-	-	-	-	-	-	-	-	1	-	-	1	1	1	1
Nevada-----	-	-	-	-	-	-	-	-	1	-	-	1	8	9	9
New Mexico-----	-	-	-	-	-	-	-	-	1	-	-	1	1	2	2
New York-----	-	-	-	-	-	-	-	-	3	-	-	3	42	45	45
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
Ohio-----	-	-	-	-	-	-	-	-	-	-	-	-	5	10	10
Oklahoma-----	-	-	-	-	-	-	-	-	1	-	-	1	3	4	4
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
Pennsylvania-----	-	-	-	-	-	1	-	1	1	-	-	1	27	28	28
South Carolina-----	-	-	-	-	-	-	-	-	1	-	-	1	11	12	12
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
Tennessee-----	-	-	-	-	-	-	-	-	2	-	-	2	5	7	7
Texas-----	-	-	-	-	-	1	-	1	3	-	-	3	29	35	35
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4
Virginia-----	-	-	-	-	-	-	-	-	7	-	-	7	8	15	15
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
West Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Total-----	-	-	-	-	1	-	3	1	4	1	-	1	58	305	363

TABLE A-16. - Injury experience and worktime data by general work location at cement operations in the United States, by State, 1970 - Continued

State	Fatal					Nonfatal						Grand total			
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines				Total mining activities	Mills	Grand total
	Underground	Surface	Total						Underground	Surface	Total				
Severity rates per million man-hours															
Alabama-----	-	-	-	-	-	-	-	-	-	-	-	-	-	110	101
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	12	873
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	938	318
California-----	-	-	-	7,786	-	6,264	-	356	-	1,427	145	1,198	-	187	110
Colorado-----	-	-	-	-	-	-	-	-	-	2,717	-	2,717	-	123	387
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-	-	169	382
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	418	763
Hawaii-----	-	-	-	-	-	-	-	-	-	1,123	-	1,123	-	731	253
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	277	608
Illinois-----	-	-	-	-	-	-	-	-	-	902	-	902	-	563	138
Indiana-----	-	-	-	-	-	-	-	-	-	124	-	124	-	138	342
Iowa-----	-	-	-	-	3,450	-	-	-	-	1,228	-	1,228	-	248	205
Kansas-----	-	-	-	-	-	-	-	-	-	234	-	234	-	201	464
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	713	-
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	397	332
Michigan-----	-	-	-	-	-	-	-	-	-	303	-	303	-	272	276
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi-----	-	-	-	-	-	-	-	-	-	881	-	881	-	396	156
Missouri-----	-	-	-	-	-	-	-	-	-	62	-	62	-	468	350
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	413	103
Nebraska-----	-	-	-	-	-	-	-	-	-	837	-	837	-	448	492
Nevada-----	-	-	-	-	-	-	-	-	-	855	-	855	-	203	450
New Mexico-----	-	-	-	-	-	-	-	-	-	2,218	-	2,218	-	504	521
New York-----	-	-	-	-	-	-	-	-	-	653	-	653	-	504	521
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	-	98	179
Ohio-----	-	-	-	-	-	-	-	-	-	527	-	527	-	1453	79
Oklahoma-----	-	-	-	-	-	-	-	-	-	789	-	789	-	128	214
Oregon-----	-	-	-	-	-	-	-	-	-	1,923	-	1,923	-	11,861	11,713
Pennsylvania-----	-	-	-	-	1,012	-	-	-	-	81	-	1,091	-	1,091	958
South Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	-	219	359
South Dakota-----	-	-	-	-	-	-	-	-	-	1,740	-	1,740	-	83	76
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-	-	265	235
Texas-----	-	-	-	-	-	-	-	-	-	178	-	178	-	298	298
Utah-----	-	-	-	-	1,402	-	-	-	-	220	-	220	-	303	748
Vermont-----	-	-	-	-	-	-	-	-	-	559	-	559	-	765	207
Virginia-----	-	-	-	-	-	-	-	-	-	461	-	461	-	115	207
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	454	409
West Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	214	176
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	98	87
Combined rate-----	-	-	-	1,053	-	978	112	-	99	549	145	517	-	464	470

TABLE A-16. - Injury experience and worktime data by general work location at cement operations in the United States, by State, 1970 - Continued

State	Active operations		Average men working daily							Average days active						
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills	
			Underground	Surface	Total											
Alabama-----	10	11	-	-	-	91	-	91	805	896	-	238	-	238	298	
Arizona-----	3	2	-	-	-	26	-	26	166	192	-	299	-	299	364	
Arkansas-----	3	5	-	-	-	21	-	21	198	219	-	253	-	253	364	
California-----	21	15	50	5	55	347	38	440	2,250	2,690	253	276	250	271	357	
Colorado-----	3	3	-	-	-	31	-	31	204	235	-	278	-	278	365	
Florida-----	4	4	-	-	-	55	-	55	498	553	-	281	-	281	361	
Georgia-----	6	4	-	-	-	36	-	36	268	304	-	246	-	246	353	
Hawaii-----	2	3	-	-	-	20	-	20	184	204	-	293	-	293	353	
Idaho-----	1	1	-	-	-	4	-	4	48	52	-	259	-	259	225	
Illinois-----	4	4	-	-	-	92	-	92	476	588	-	217	-	217	284	
Indiana-----	5	7	-	-	-	96	-	96	523	581	-	282	-	282	348	
Iowa-----	6	5	-	-	-	90	-	90	536	620	-	259	-	259	285	
Kansas-----	10	7	-	-	-	94	-	94	526	620	-	259	-	259	285	
Kentucky-----	1	1	-	-	-	7	-	7	57	57	-	234	-	234	364	
Louisiana-----	2	2	-	-	-	85	-	85	119	204	-	260	-	260	346	
Maine-----	1	1	-	-	-	17	-	17	106	123	-	294	-	294	365	
Maryland-----	5	4	-	-	-	56	-	56	206	262	-	256	-	256	353	
Michigan-----	10	9	-	-	-	133	-	133	1,126	1,259	-	329	-	329	351	
Minnesota-----	-	1	-	-	-	-	-	-	105	105	-	-	-	-	304	
Mississippi-----	3	2	-	-	-	18	-	18	95	113	-	228	-	228	242	
Missouri-----	7	7	-	-	-	138	-	138	729	867	-	292	-	292	345	
Montana-----	3	2	-	-	-	17	-	17	128	145	-	300	-	300	303	
Nebraska-----	1	2	-	-	-	45	-	45	211	256	-	229	-	229	346	
Nevada-----	2	1	-	-	-	8	-	8	50	58	-	274	-	274	362	
New Mexico-----	1	1	-	-	-	10	-	10	54	64	-	276	-	276	365	
New York-----	10	12	-	-	-	194	-	194	1,084	1,278	-	253	-	253	347	
North Carolina-----	1	1	-	-	-	26	-	26	91	117	-	307	-	307	364	
Ohio-----	13	9	64	16	80	167	-	247	972	1,219	199	255	237	237	254	
Oklahoma-----	4	3	-	-	-	31	-	31	236	267	-	256	-	256	319	
Oregon-----	1	3	-	-	-	3	-	3	187	190	-	260	-	260	276	
Pennsylvania-----	21	21	58	3	61	282	-	343	2,209	2,552	256	246	248	248	330	
South Carolina-----	2	2	-	-	-	31	-	31	223	254	-	266	-	266	365	
South Dakota-----	1	1	-	-	-	12	-	12	120	132	-	194	-	194	227	
Tennessee-----	6	6	-	-	-	102	-	102	557	659	-	289	-	289	323	
Texas-----	17	18	-	-	-	134	-	134	1,486	1,820	-	231	-	231	337	
Utah-----	2	2	-	-	-	112	-	112	310	422	-	249	-	249	344	
Virginia-----	5	3	-	-	-	115	-	115	310	422	-	249	-	249	344	
Washington-----	3	3	-	-	-	26	-	26	193	219	-	230	-	230	282	
West Virginia-----	1	1	-	-	-	38	-	38	176	214	-	285	-	285	285	
Wisconsin-----	-	2	-	-	-	-	-	-	65	65	-	-	-	-	340	
Wyoming-----	5	1	-	-	-	15	-	15	49	64	-	146	-	146	365	
Total or average-----	206	192	172	24	196	2,686	38	2,920	18,220	21,140	232	263	250	261	330	

TABLE A-16. - Injury experience and worktime data by general work location at cement operations in the United States, by State, 1970 - Continued

State	Man-days worked					Man-hours worked				
	Underground mines			Total	Grand total	Underground mines			Total	Grand total
	Underground	Surface	Total			Underground	Surface	Total		
Alabama-----	-	-	21,682	21,682	239,557	-	-	175,238	1,919,812	2,095,050
Arizona-----	-	-	7,775	7,775	68,212	-	-	62,195	483,499	545,694
Arkansas-----	-	-	5,303	5,303	72,115	-	-	42,425	576,927	619,352
California-----	1,300	13,900	95,787	119,182	803,377	101,050	10,150	770,654	6,465,061	7,422,908
Colorado-----	-	-	8,612	8,612	74,371	-	-	68,899	594,974	663,873
Florida-----	-	-	15,466	15,466	179,831	-	-	136,181	1,457,551	1,593,732
Georgia-----	-	-	8,851	8,851	94,511	-	-	70,926	756,606	827,532
Hawaii-----	-	-	5,851	5,851	64,947	-	-	44,506	503,250	547,756
Idaho-----	-	-	1,035	1,035	10,811	-	-	8,278	86,495	94,773
Illinois-----	-	-	19,933	19,933	135,197	-	-	164,090	1,081,568	1,245,658
Indiana-----	-	-	14,129	14,129	325,375	-	-	113,036	2,602,997	2,716,033
Iowa-----	-	-	23,381	23,381	217,383	-	-	185,602	1,739,661	1,924,661
Kansas-----	-	-	24,334	24,334	151,024	-	-	192,164	1,402,186	1,402,350
Kentucky-----	-	-	1,636	1,636	18,200	-	-	13,084	145,600	158,684
Louisiana-----	-	-	22,076	22,076	41,222	-	-	176,609	329,776	506,385
Maine-----	-	-	5,002	5,002	38,644	-	-	40,019	309,150	349,169
Maryland-----	-	-	14,344	14,344	72,761	-	-	116,747	582,082	696,829
Michigan-----	-	-	43,718	43,718	395,458	-	-	349,746	3,163,673	3,513,419
Minnesota-----	-	-	-	-	31,901	-	-	-	255,208	255,208
Mississippi-----	-	-	4,113	4,113	19,154	-	-	32,910	331,233	380,143
Missouri-----	-	-	40,256	40,256	258,914	-	-	322,948	1,991,384	2,313,432
Montana-----	-	-	5,079	5,079	43,863	-	-	42,725	309,871	350,666
Nebraska-----	-	-	1,306	1,306	78,105	-	-	82,452	384,458	466,910
Nevada-----	-	-	2,761	2,761	13,123	-	-	17,554	147,333	164,883
New Mexico-----	-	-	2,761	2,761	19,729	-	-	22,088	157,893	179,623
New York-----	-	-	48,993	48,993	375,911	-	-	391,952	3,009,602	3,401,595
North Carolina-----	-	-	7,979	7,979	33,089	-	-	63,828	364,711	428,539
Ohio-----	12,664	3,262	42,555	58,481	246,705	101,312	26,098	340,448	1,973,638	2,441,486
Oklahoma-----	-	-	7,924	7,924	75,309	-	-	63,395	602,668	665,863
Oregon-----	-	-	780	780	51,630	-	-	6,246	61,037	67,283
Pennsylvania-----	14,774	900	69,480	85,104	729,344	117,795	7,200	579,570	5,931,369	6,635,934
Rhode Island-----	-	-	8,260	8,260	81,490	-	-	66,080	651,922	718,002
South Carolina-----	-	-	2,326	2,326	27,213	-	-	18,608	217,711	236,319
South Dakota-----	-	-	29,480	29,480	179,909	-	-	235,444	1,438,393	1,673,837
Tennessee-----	-	-	33,640	33,640	500,329	-	-	277,220	4,002,631	4,279,851
Texas-----	-	-	3,799	3,799	40,508	-	-	30,395	324,063	354,458
Utah-----	-	-	27,892	27,892	72,323	-	-	225,655	618,597	844,252
Virginia-----	-	-	5,980	5,980	54,520	-	-	47,844	436,156	484,000
Washington-----	-	-	10,831	10,831	50,187	-	-	86,648	401,498	488,146
West Virginia-----	-	-	-	-	22,105	-	-	-	176,843	176,843
Wisconsin-----	-	-	2,189	2,189	17,885	-	-	17,512	143,080	160,592
Wyoming-----	-	-	-	-	-	-	-	-	-	-
Total-----	39,988	5,462	705,752	760,697	6,010,990	320,157	43,448	5,697,085	6,136,653	54,347,444

TABLE A-17. - Injury experience and worktime data by general work location at granite operations in the United States, by State, 1970

State	Fatal						Nonfatal										
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	
	Underground	Surface	Total						Underground	Surface	Total						
Injuries																	
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	9	-	2	11	
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	11	-	8	19	
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	10	-	5	15	
California-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-	46	-	53	99	
Georgia-----	-	-	-	1	1	-	-	-	-	-	-	-	2	-	-	1	
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	3	-	5	8	
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	11	-	30	41	
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	4	
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-	5	-	1	6	
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	7	-	12	19	
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	8	-	10	18	
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-	13	-	29	42	
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-	6	-	9	15	
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
North Carolina-----	-	-	-	1	1	-	-	-	-	-	-	-	9	-	-	10	
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pennsylvania-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-	9	-	1	10	
South Carolina-----	-	-	-	1	1	-	-	-	-	-	-	-	21	-	3	24	
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	15	17	
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	36	-	11	47	
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	8	9	
Virginia-----	-	-	-	1	1	-	-	-	-	-	-	-	11	-	1	20	
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-	8	-	1	10	
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
Total-----	-	-	-	3	2	3	-	-	-	-	-	-	227	-	202	429	

TABLE A-17. - Injury experience and worktime data by general work location at granite operations in the United States, by State, 1970 - Continued

State	Fatal					Nonfatal								
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Total mining activities	Mills	Grand total			
	Underground	Surface	Total									Underground mines		Total
												Underground	Surface	
Frequency rates per million man-hours														
Alaska-----	-	-	-	-	-	-	-	-	24.66	-	24.66	26.69	25.00	
Arizona-----	-	-	-	-	-	-	-	-	35.42	-	35.42	15.65	23.12	
Arkansas-----	-	-	-	-	-	-	-	-	44.39	-	44.39	21.38	32.67	
California-----	-	-	-	-	-	-	-	-	19.51	-	19.51	-	12.15	
Colorado-----	-	-	-	-	-	-	-	-	70.70	-	70.70	-	29.89	
Connecticut-----	-	-	-	-	-	-	-	-	30.01	-	30.01	29.79	29.89	
Georgia-----	-	-	-	-	-	-	-	-	17.19	-	17.19	-	13.39	
Idaho-----	-	-	-	-	-	-	-	-	43.14	-	43.14	-	33.06	
Maine-----	-	-	-	-	-	-	-	-	43.94	-	43.94	-	34.63	
Maryland-----	-	-	-	-	-	-	-	-	26.52	-	26.52	57.92	40.11	
Massachusetts-----	-	-	-	-	-	-	-	-	40.98	-	40.98	25.09	28.00	
Michigan-----	-	-	-	-	-	-	-	-	126.26	-	126.26	50.42	72.06	
Minnesota-----	-	-	-	-	-	-	-	-	27.90	-	27.90	28.23	27.95	
Missouri-----	-	-	-	-	-	-	-	-	68.19	-	68.19	32.44	41.51	
Montana-----	-	-	-	-	-	-	-	-	46.53	-	46.53	90.63	63.77	
Nevada-----	-	-	-	-	-	-	-	-	341.18	-	341.18	-	203.50	
New Hampshire-----	-	-	-	-	-	-	-	-	7.21	-	7.21	22.89	13.68	
New Jersey-----	-	-	-	-	-	-	-	-	95.58	-	95.58	55.66	66.83	
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
North Carolina-----	-	-	-	-	-	-	0.79	.33	-	-	-	-	-	
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pennsylvania-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
South Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wisconsin-----	-	-	-	-	-	-	9.01	3.29	-	-	-	-	-	
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	
Combined rate-----	-	-	-	.37	-	.37	.25	.31	-	-	27.83	25.11	26.40	

TABLE A-17. - Injury experience and worktime data by general work location at granite operations in the United States, by State, 1970 - Continued

State	Active operations		Average men working daily						Average days active						
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alaska-----	11	10	-	-	-	186	-	186	37	223	-	218	-	218	225
Arizona-----	3	2	-	-	-	5	-	5	6	11	-	40	-	40	48
Arkansas-----	6	5	-	-	-	125	-	125	6	352	-	269	-	269	264
California-----	43	17	-	-	-	130	-	130	111	241	-	214	-	214	258
Colorado-----	65	5	-	-	-	28	-	28	16	44	-	208	-	208	235
Connecticut-----	2	2	-	-	-	14	-	14	17	31	-	253	-	253	284
Georgia-----	53	45	-	-	-	675	-	675	804	1,479	-	253	-	253	252
Idaho-----	4	1	10	3	13	55	-	68	69	296	-	263	-	263	246
Maine-----	5	2	-	-	-	10	-	10	3	13	-	252	-	252	252
Maryland-----	1	1	-	-	-	19	-	19	3	24	-	266	-	266	272
Massachusetts-----	9	9	-	-	-	71	-	71	51	122	-	199	-	199	208
Michigan-----	1	1	-	-	-	8	-	8	2	10	-	176	-	176	178
Minnesota-----	21	6	-	-	-	142	-	142	506	648	-	215	-	215	259
Missouri-----	1	1	-	-	-	9	-	9	22	31	-	220	-	220	225
Montana-----	5	5	-	-	-	81	-	81	16	97	-	246	-	246	246
Nevada-----	3	2	-	-	-	38	-	38	108	146	-	241	-	241	250
New Hampshire-----	6	6	-	-	-	79	-	79	53	132	-	262	-	262	246
New Jersey-----	2	2	-	-	-	3	-	3	3	6	-	122	-	122	83
New Mexico-----	6	4	7	2	9	24	-	33	6	39	225	183	-	194	199
New York-----	78	60	-	-	-	861	-	861	602	1,463	-	245	-	245	250
North Carolina-----	10	7	-	-	-	35	-	35	80	115	-	217	-	217	252
Oklahoma-----	2	2	-	-	-	1	-	1	2	2	-	312	-	312	312
Oregon-----	2	2	-	-	-	11	-	11	12	23	-	191	-	191	200
Pennsylvania-----	1	-	-	-	-	2	-	2	-	2	-	227	-	227	-
Rhode Island-----	16	11	-	-	-	286	-	286	199	485	-	251	-	251	266
South Carolina-----	7	2	-	-	-	104	-	104	107	211	-	255	-	255	258
South Dakota-----	6	2	-	-	-	50	-	50	130	180	-	226	-	226	247
Texas-----	7	4	-	-	-	376	-	376	211	587	-	246	-	246	237
Vermont-----	26	26	-	-	-	321	-	321	263	584	-	248	-	248	262
Virginia-----	8	4	-	-	-	44	-	44	6	30	-	170	-	170	171
Washington-----	19	6	-	-	-	103	-	103	57	160	-	227	-	227	243
Wisconsin-----	4	2	-	-	-	26	-	26	9	35	-	217	-	217	191
Total or average-----	436	255	17	5	22	3,902	-	3,924	3,674	7,598	267	242	-	242	252

TABLE A-18. - Injury experience and worktime data by general work location at limestone operations in the United States, by State, 1970

State	Fatal						Nonfatal										
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Total mining activities	Mills	Grand total			
	Underground	Surface	Total						Underground	Surface	Total						
Injuries																	
Alabama-----	-	-	-	-	-	-	1	1	1	1	1	2	11	2	15	19	34
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	5	-	1	1	1
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	5	-	9	12	21
California-----	-	-	-	1	-	1	1	1	3	3	12	3	6	-	18	5	23
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	6	9
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	1	3
Florida-----	-	-	-	-	2	2	1	3	-	-	-	-	51	3	54	54	108
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-	10	6	10	6	16
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	-	4	2	4	2	6
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	-	-	-	2	-	2	1	3	8	1	9	-	53	-	62	55	117
Indiana-----	-	-	-	1	-	1	-	-	-	-	-	-	53	-	53	55	108
Iowa-----	-	-	-	1	-	-	-	-	-	2	2	2	44	-	46	37	83
Kansas-----	-	-	-	-	-	-	-	-	-	6	6	6	16	-	22	20	42
Kentucky-----	-	1	1	-	-	-	1	1	14	12	26	53	5	-	79	32	111
Louisiana-----	-	-	-	-	-	-	-	-	-	-	-	23	23	10	23	30	33
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	25	-	25	24	49
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Michigan-----	-	-	-	-	-	-	-	-	1	-	1	1	19	-	20	8	28
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	7	-	7	13	20
Mississippi-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	1	1	1	-	-	1	1	1	4	1	5	5	48	-	53	39	92
Montana-----	-	-	-	-	-	-	-	-	-	2	2	2	2	-	2	3	5
Nebraska-----	-	-	-	-	-	-	-	-	1	-	1	1	11	-	12	18	30
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2
New York-----	1	-	-	1	-	1	1	2	-	-	-	-	39	-	39	17	56
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	8	11
Ohio-----	-	-	-	-	-	-	-	-	-	-	-	-	40	-	40	36	76
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	31	-	31	19	50
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania-----	-	-	-	1	-	1	1	1	-	1	1	1	57	-	58	48	106
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2
South Carolina-----	-	-	-	-	-	-	1	1	-	-	-	-	1	-	1	1	2
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	1
Tennessee-----	-	-	-	3	-	3	1	4	-	-	-	-	44	-	44	43	87
Texas-----	-	-	-	1	-	1	1	1	-	-	-	-	60	31	91	40	131
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	-	3
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	3
Virginia-----	-	-	-	1	-	1	-	1	-	-	-	-	33	-	33	33	66
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	6	-	6	9	9
West Virginia-----	-	-	-	-	-	-	1	1	1	7	8	8	19	-	27	9	36
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-	48	-	48	21	69
Wyoming-----	-	1	1	-	-	1	1	1	-	-	-	-	1	-	1	-	1
Total-----	1	2	3	11	2	16	8	24	42	35	77	953	817	59	953	697	1,650

TABLE A-18. - Injury experience and worktime data by general work location at limestone operations in the United States, by State, 1970 - Continued

State	Fatal				Nonfatal									
	Underground mines			Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total
	Underground	Surface	Total				Underground	Surface	Total					
Frequency rates per million man-hours														
Alabama-----	-	-	-	-	1.12	0.54	30.43	172.44	51.73	13.19	21.49	15.54	21.22	18.27
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	26.77	-	26.77	-	16.75
Arkansas-----	-	-	-	-	-	-	-	-	-	21.45	-	21.45	-	32.92
California-----	-	-	-	-	-	1.39	43.33	14.70	29.14	33.14	-	33.14	44.85	31.99
Colorado-----	-	-	-	-	-	-	94.98	100.16	96.23	-	-	57.09	12.39	55.78
Connecticut-----	-	-	-	-	-	-	-	-	-	23.13	-	23.13	189.60	23.63
Delaware-----	-	-	-	-	-	-	-	-	-	130.92	-	130.92	23.56	52.09
Florida-----	-	-	-	-	.50	.65	-	-	-	20.65	-	20.65	26.94	23.56
Georgia-----	-	-	-	-	-	-	-	-	-	26.34	-	26.34	40.95	30.58
Hawaii-----	-	-	-	-	-	-	-	-	-	61.04	-	61.04	141.45	75.31
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	-	-	-	-	.44	.58	25.72	15.96	24.08	21.12	-	21.51	26.25	22.72
Indiana-----	-	-	-	-	.45	.24	-	-	-	26.23	-	23.88	28.26	22.93
Iowa-----	-	-	-	-	-	-	-	-	-	20.67	-	20.84	24.95	22.49
Kansas-----	-	-	-	-	-	-	-	136.63	25.20	14.43	-	17.15	30.28	21.61
Kentucky-----	-	-	-	-	.34	.25	21.86	166.86	34.42	26.37	-	26.71	28.96	27.32
Louisiana-----	-	-	-	-	-	-	-	39.07	27.44	26.37	-	33.07	43.10	35.58
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	40.04	-	37.76	25.41	30.50
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan-----	-	-	-	-	-	-	130.21	-	104.17	15.53	-	16.22	4.53	36.87
Minnesota-----	-	-	-	-	-	-	-	-	-	18.77	-	18.77	30.19	9.33
Mississippi-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	2.34	-	1.87	.35	-	.25	9.37	9.33	9.36	20.68	-	18.56	33.02	22.79
Montana-----	-	-	-	-	-	-	-	-	-	26.70	-	26.70	308.64	59.08
Nebraska-----	-	-	-	-	-	-	31.88	-	25.28	19.69	-	20.06	85.57	37.10
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey-----	-	-	-	-	-	-	-	-	-	58.53	-	58.53	25.67	35.69
New Mexico-----	-	-	-	-	-	-	-	-	-	9.64	-	9.64	31.45	14.76
New York-----	-	-	.83	.83	1.02	.92	-	-	-	32.46	-	32.46	17.42	25.72
North Carolina-----	-	-	-	-	-	-	-	-	-	17.92	-	17.92	42.86	22.93
Ohio-----	-	-	-	-	-	-	-	-	-	19.61	-	19.61	19.78	18.82
Oklahoma-----	-	-	-	-	-	-	-	-	-	26.62	-	25.76	40.16	29.82
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania-----	-	-	.37	.35	-	.20	-	17.00	6.18	21.11	-	20.27	22.76	21.33
Rhode Island-----	-	-	-	-	-	4.55	-	-	-	59.13	-	59.13	22.99	33.11
South Carolina-----	-	-	-	-	11.84	-	-	-	-	7.40	-	7.40	4.55	-
South Dakota-----	-	-	-	-	-	-	-	-	-	73.03	-	73.03	-	22.01
Tennessee-----	-	-	1.55	1.48	.73	1.17	-	-	-	22.70	-	21.64	31.32	25.54
Texas-----	-	-	.44	.36	-	.23	-	-	-	26.31	60.25	32.44	26.32	30.29
Utah-----	-	-	-	-	-	-	-	-	-	24.19	-	20.19	15.61	-
Vermont-----	-	-	-	-	-	-	-	-	-	8.89	-	8.89	33.77	17.47
Virginia-----	-	-	.69	.68	-	.37	-	-	-	22.74	-	22.45	27.30	24.64
Washington-----	-	-	-	-	-	-	-	-	-	121.42	-	121.42	83.79	105.61
West Virginia-----	-	-	-	-	3.31	.97	4.28	99.06	26.29	44.61	-	36.98	29.77	34.87
Wisconsin-----	-	-	-	-	1.81	.53	-	-	-	36.12	-	36.12	37.93	36.65
Wyoming-----	-	-	-	-	-	8.50	-	-	-	41.13	-	10.49	-	8.50
Combined rate-----	.40	2.24	.88	.40	.30	.36	16.68	39.18	22.58	23.36	40.88	23.93	25.87	24.71

TABLE A-18. - Injury experience and worktime data by general work location at limestone operations in the United States, by State, 1970 - Continued

State	Active operations		Average men working daily							Average days active				
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities
			Underground	Surface	Total									
Alabama-----	43	37	17	3	20	406	26	432	389	841	252	238	321	243
Alaska-----	1	-	-	-	-	2	-	2	-	2	-	66	-	66
Arizona-----	3	2	-	-	-	25	-	25	16	41	-	192	-	173
Arkansas-----	33	17	30	27	57	113	-	170	114	284	289	246	-	281
California-----	22	19	47	12	59	95	6	160	173	333	264	220	199	235
Colorado-----	11	7	-	-	-	80	-	80	21	101	-	180	-	180
Connecticut-----	3	3	-	-	-	-	-	-	-	-	-	-	-	-
Delaware-----	90	61	-	-	-	1,017	63	1,080	800	1,880	-	273	189	273
Florida-----	7	-	-	-	-	146	-	146	63	209	-	273	-	273
Georgia-----	7	3	-	-	-	3	-	3	6	9	-	242	-	252
Hawaii-----	1	-	-	-	-	3	-	3	-	3	-	278	-	278
Idaho-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	237	144	130	27	157	1,165	-	1,322	993	2,315	273	232	-	266
Indiana-----	109	101	10	4	14	1,077	-	1,091	947	2,038	256	241	-	244
Iowa-----	270	118	31	7	38	985	-	1,023	669	1,692	232	237	-	239
Kansas-----	164	78	65	18	83	479	-	562	303	865	245	271	-	267
Kentucky-----	116	112	326	156	482	989	-	1,471	545	2,016	242	238	-	239
Louisiana-----	7	8	-	-	-	-	195	195	82	277	-	-	333	286
Maine-----	3	2	-	-	-	13	-	13	4	17	-	282	-	282
Maryland-----	17	17	10	2	12	302	7	321	428	749	157	241	329	239
Massachusetts-----	2	2	-	-	-	4	-	4	9	13	-	246	-	246
Michigan-----	26	24	4	1	5	599	-	604	865	1,469	240	247	-	247
Minnesota-----	69	48	-	-	-	228	-	228	218	446	-	186	-	186
Mississippi-----	1	1	-	-	-	10	-	10	2	12	-	260	-	260
Missouri-----	223	170	212	53	265	1,183	-	1,448	588	2,036	249	230	-	234
Montana-----	5	3	-	-	-	29	-	29	5	34	-	294	-	294
Nebraska-----	35	22	11	3	14	243	-	257	87	344	282	255	-	257
Nevada-----	3	2	-	-	-	14	-	14	5	19	-	139	-	139
New Jersey-----	2	4	-	-	-	7	-	7	17	24	-	284	-	284
New Mexico-----	18	17	-	-	-	59	-	59	16	75	-	216	-	216
New York-----	39	56	-	-	-	667	-	667	315	1,182	-	212	-	212
North Carolina-----	9	6	-	-	-	83	-	83	87	150	-	256	-	256
Ohio-----	135	117	100	7	107	920	-	1,027	874	1,921	208	267	-	267
Oklahoma-----	78	54	7	14	21	569	-	569	212	781	308	253	-	253
Oregon-----	3	-	3	1	4	5	-	5	6	11	-	88	-	88
Pennsylvania-----	136	123	57	24	81	1,298	-	1,379	966	2,345	224	302	-	242
Rhode Island-----	1	1	-	-	-	7	-	7	18	25	-	302	-	302
South Carolina-----	3	3	-	-	-	52	-	52	28	80	-	267	-	267
South Dakota-----	5	5	-	-	-	18	-	18	38	56	-	177	-	177
Tennessee-----	112	102	24	18	42	936	-	978	645	1,623	247	233	-	233
Texas-----	134	115	4	4	8	913	138	1,055	617	1,672	244	270	339	279
Utah-----	9	8	5	5	10	69	-	79	25	104	307	224	-	224
Vermont-----	5	-	-	-	-	53	-	53	31	84	-	256	-	256
Virginia-----	63	61	7	2	9	699	-	708	559	1,267	260	246	-	247
Washington-----	14	7	-	-	-	33	-	33	27	60	-	187	-	187
West Virginia-----	28	22	112	33	145	217	-	362	154	516	258	235	-	241
Wisconsin-----	355	129	-	-	-	791	-	791	324	1,115	-	192	-	192
Wyoming-----	5	4	31	6	37	22	-	59	14	73	240	138	-	202
Total or average-----	2,671	1,853	1,242	417	1,659	16,709	435	18,803	12,442	31,245	247	242	311	244

TABLE A-19. - Injury experience and worktime data by general work location at limestone (chief product, lime) operations in the United States, by State, 1970 - Continued

State	Fatal				Nonfatal													
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total		
	Underground	Surface	Total						Underground	Surface	Total							
Frequency rates per million man-hours																		
Alabama-----	-	-	-	-	-	-	-	-	-	-	-	-	4.70	-	-	3.78	11.38	8.84
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.19	4.38
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	79.14	-	-	-	37.86	41.83
California-----	-	-	-	-	-	-	-	-	-	-	-	-	16.42	-	-	-	19.03	20.10
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.76
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Combined rate-----	-	-	-	-	-	.05	19.38	-	-	16.02	27.89	-	23.93	19.24	20.34	-	-	-

TABLE A-19. - Injury experience and worktime data by general work location at limestone (chief product, lime) operations in the United States, by State, 1970 - Continued

State	Active operations		Average men working daily						Average days active						
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alabama-----	6	5	18	4	22	98	-	120	190	310	293	271	-	275	347
Arizona-----	5	5	-	-	-	29	-	29	66	95	-	287	-	287	306
Arkansas-----	1	2	-	-	-	9	-	9	95	104	-	312	-	312	313
California-----	5	12	22	8	30	48	-	78	150	228	149	318	-	253	290
Colorado-----	2	2	-	-	-	36	-	36	21	57	-	126	-	126	188
Connecticut-----	1	1	-	-	-	6	-	6	32	38	-	275	-	275	282
Florida-----	2	-	-	-	-	-	-	-	29	29	-	-	-	-	365
Georgia-----	1	1	-	-	-	1	-	1	8	9	-	40	-	40	40
Hawaii-----	1	1	-	-	-	1	-	1	16	17	-	60	-	60	148
Illinois-----	2	5	11	8	19	-	-	19	192	211	262	-	-	262	349
Indiana-----	-	1	-	-	-	-	-	-	28	28	-	-	-	-	365
Iowa-----	1	2	21	5	26	-	-	26	40	66	286	-	-	286	365
Louisiana-----	-	3	-	-	-	-	-	-	84	84	-	-	-	-	341
Maryland-----	2	2	-	-	-	16	-	16	25	41	-	284	-	284	319
Massachusetts-----	2	2	-	-	-	20	-	20	153	173	-	310	-	310	314
Michigan-----	-	8	-	-	-	-	-	-	138	138	-	-	-	-	345
Minnesota-----	-	1	-	-	-	-	-	-	13	13	-	-	-	-	346
Missouri-----	4	7	88	22	110	45	-	155	630	785	348	251	-	320	314
Montana-----	1	1	-	-	-	13	-	13	36	36	-	244	-	244	244
Nevada-----	3	4	-	-	-	33	-	33	47	80	-	252	-	252	350
New Jersey-----	1	1	-	-	-	15	-	15	62	77	-	276	-	276	268
New Mexico-----	1	1	-	-	-	3	-	3	5	8	-	327	-	327	365
New York-----	1	5	-	-	-	113	-	113	107	220	-	262	-	262	293
Ohio-----	13	28	13	3	16	214	-	230	1,339	1,569	204	276	-	271	329
Oklahoma-----	1	2	24	6	30	-	-	30	45	75	289	-	-	289	261
Oregon-----	1	3	-	-	-	1	-	1	24	25	-	159	-	159	313
Pennsylvania-----	17	15	219	24	243	305	-	548	882	1,430	254	258	-	256	306
South Dakota-----	1	1	-	-	-	3	-	3	2	5	-	300	-	300	300
Tennessee-----	3	3	-	-	-	30	-	30	59	89	-	306	-	306	289
Texas-----	7	7	-	-	-	111	-	111	304	415	-	307	-	307	334
Utah-----	5	4	-	-	-	37	-	37	62	99	-	248	-	248	303
Vermont-----	1	4	-	-	-	3	-	3	13	16	-	222	-	222	211
Virginia-----	7	7	125	22	147	39	-	186	354	540	301	261	-	293	323
Washington-----	-	1	-	-	-	-	-	-	30	30	-	-	-	-	240
West Virginia-----	3	3	-	-	-	28	-	28	118	146	-	214	-	214	266
Wisconsin-----	4	6	-	-	-	15	-	15	114	129	-	289	-	289	297
Total or average-----	103	156	541	102	643	1,272	-	1,915	5,480	7,395	279	267	-	271	317

TABLE A-20. - Injury experience and worktime data by general work location at marble operations in the United States, by State, 1970 - Continued

State	Fatal					Nonfatal								
	Underground mines			Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total
	Underground	Surface					Underground	Surface	Total					
Severity rates per million man-hours														
Alabama-----	-	-	-	-	-	-	-	-	-	194	-	194	137	153
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	53	32
Arkansas-----	-	-	-	-	-	-	-	-	-	4,863	-	4,863	645	3,242
California-----	-	-	-	-	-	-	-	-	-	139	-	139	645	410
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	935	862
Georgia-----	-	-	-	-	-	-	473	-	385	838	-	659	-	-
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	2,015	1,304
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	1,466	1,200
Missouri-----	-	-	-	-	-	-	267	-	213	282	-	245	1,466	82
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-	2,178	1,634
New York-----	-	-	-	-	-	-	-	-	-	121,617	-	76,821	2,629	62,372
North Carolina-----	-	-	-	-	-	-	-	-	-	900	-	2,254	2,586	1,735
North Dakota-----	-	-	-	-	-	-	-	-	-	586	-	586	1,193	1,013
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-	2,073	1,252
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	306	701
Vermont-----	-	-	-	-	-	-	390	-	314	-	-	-	896	1,134
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	1,815	1,134
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	127	82
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Combined rate-----	-	-	-	-	-	-	373	-	302	4,024	-	2,590	952	1,444
Average man working daily														
Active operations					Average days active									
Quarries	Mills	Underground mines			Total mining activities	Other surface mining	Open quarries	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
		Underground	Surface	Total										
Alabama-----	4	3	-	-	108	-	108	261	369	-	263	-	263	271
Arizona-----	3	2	-	-	7	-	7	8	15	-	203	-	203	276
Arkansas-----	1	1	-	-	12	-	12	6	18	-	246	-	246	246
California-----	11	2	-	-	14	-	14	12	26	-	192	-	192	258
Colorado-----	2	-	-	-	4	-	4	-	4	-	182	-	182	-
Georgia-----	11	16	48	59	192	-	133	488	690	262	213	-	228	241
Idaho-----	1	-	-	-	1	-	1	-	1	-	220	-	220	-
Maryland-----	1	1	2	3	3	-	29	5	8	248	248	-	248	273
Massachusetts-----	9	4	24	31	60	-	6	256	316	303	290	-	244	244
Missouri-----	3	-	-	-	6	-	6	8	14	-	221	-	221	217
Montana-----	1	-	-	-	1	-	1	-	1	-	-	-	-	-
Nevada-----	1	1	-	-	2	-	2	6	8	-	220	-	220	220
New Jersey-----	4	3	6	14	20	-	13	5	25	259	239	-	266	238
New York-----	2	2	-	-	41	-	41	66	107	-	237	-	237	237
North Carolina-----	8	-	-	-	64	-	64	131	195	-	203	-	203	246
North Dakota-----	27	2	4	4	18	-	18	27	45	260	228	-	235	246
Tennessee-----	6	3	111	138	153	-	15	273	428	259	61	-	240	279
Texas-----	1	1	-	-	3	-	3	5	8	-	248	-	248	248
Vermont-----	2	1	-	-	7	-	7	6	13	-	193	-	193	189
Virginia-----	1	1	-	-	5	-	5	9	14	-	288	-	288	288
Washington-----	1	1	-	-	5	-	5	9	14	-	288	-	288	288
Wyoming-----	1	1	-	-	5	-	5	9	14	-	288	-	288	288
Total or average-----	99	50	195	242	721	-	479	1,574	2,295	265	225	-	239	254

TABLE A-21. - Injury experience and worktime data by general work location at sandstone operations in the United States, by State, 1970 - Continued

State	Active operations		Average men working daily						Average days active						
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alabama-----	5	1	-	-	-	14	-	14	1	15	-	164	-	164	261
Arizona-----	56	17	-	-	-	68	-	68	14	82	-	232	-	232	200
Arkansas-----	45	19	4	1	5	174	-	179	183	362	260	252	-	260	261
California-----	30	13	-	-	-	191	-	191	13	204	10	182	-	182	160
Colorado-----	52	6	2	-	2	13	-	13	8	21	-	229	-	229	254
Connecticut-----	2	3	-	-	-	48	-	48	13	61	-	257	-	257	257
Georgia-----	2	1	-	-	-	34	-	34	8	42	-	110	-	110	118
Idaho-----	8	10	1	-	1	57	-	58	371	429	120	294	-	291	299
Illinois-----	7	3	-	-	-	9	-	9	17	26	-	89	-	89	166
Indiana-----	1	1	16	4	20	-	-	20	2	22	307	-	-	307	306
Iowa-----	3	4	-	-	-	23	-	23	19	42	-	253	-	253	266
Kansas-----	1	1	-	-	-	5	-	5	1	6	-	270	-	270	269
Kentucky-----	7	7	-	-	-	38	-	38	9	47	-	217	-	217	215
Maryland-----	3	3	-	-	-	19	-	19	67	86	-	208	-	208	218
Massachusetts-----	4	1	-	-	-	20	-	20	38	58	-	304	-	304	295
Michigan-----	3	3	-	-	-	24	-	24	39	63	-	199	-	199	239
Minnesota-----	3	3	-	-	-	14	-	28	37	65	249	199	-	224	303
Missouri-----	4	6	12	2	14	52	-	52	11	63	-	282	-	282	328
Montana-----	8	6	-	-	-	20	-	20	11	37	-	200	-	200	277
Nevada-----	4	3	-	-	-	1	-	1	3	5	-	8	-	8	200
New Hampshire-----	1	1	-	-	-	1	-	1	5	27	-	179	-	179	177
New Jersey-----	13	13	-	-	-	22	-	22	75	133	-	192	-	192	242
New Mexico-----	14	11	-	-	-	58	-	58	16	27	-	147	-	147	248
New York-----	7	3	-	-	-	11	-	11	453	720	211	211	-	211	246
North Carolina-----	49	25	-	-	-	267	-	267	453	720	-	251	-	251	256
Ohio-----	8	8	-	-	-	31	-	31	20	51	-	248	-	248	252
Oklahoma-----	5	5	-	-	-	17	-	17	4	21	-	248	-	248	223
Oregon-----	5	5	-	-	-	5	-	5	230	660	295	220	-	228	223
Pennsylvania-----	65	44	33	13	46	384	-	430	83	116	-	256	-	256	266
South Dakota-----	22	13	-	-	-	83	-	83	33	116	-	176	-	176	254
Tennessee-----	8	9	-	-	-	47	-	47	68	115	-	281	-	281	294
Texas-----	34	20	-	-	-	108	-	108	65	173	-	79	-	79	272
Utah-----	12	2	-	-	-	27	-	27	3	30	-	230	-	230	270
Virginia-----	13	7	-	-	-	60	-	60	42	102	-	252	-	252	330
Washington-----	6	3	-	-	-	27	-	27	12	39	-	189	-	189	266
West Virginia-----	22	17	-	-	-	136	-	136	170	306	-	36	-	36	257
Wisconsin-----	11	5	-	-	-	44	-	44	79	123	-	221	-	221	257
Wyoming-----	5	-	-	-	-	3	-	3	-	3	-	-	-	-	-
Total or average-----	548	295	68	20	88	2,193	-	2,281	2,207	4,488	280	221	-	223	257

TABLE A-22. - Injury experience and worktime data by general work location at slate operations in the United States, by State, 1970 - Continued

State	Active operations		Average men working daily						Average days active							
	Quarries	Mills	Underground mines				Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	
			Underground	Surface	Total											
Arkansas-----	3	1	-	-	-	4	-	4	15	19	-	204	-	204	261	
California-----	3	1	-	-	-	8	-	8	10	18	-	151	-	151	300	
Georgia-----	3	2	5	1	6	10	-	16	90	106	252	259	-	256	257	
Maine-----	1	1	8	4	12	-	-	12	8	20	218	-	-	218	254	
New York-----	10	6	-	-	-	25	-	25	14	39	-	185	-	185	186	
North Carolina-----	4	1	-	-	-	19	-	19	14	33	-	280	-	280	280	
Pennsylvania-----	4	1	-	-	-	164	-	164	290	454	-	233	-	233	256	
Vermont-----	21	14	-	-	-	92	-	92	82	174	-	243	-	243	252	
Virginia-----	4	5	-	-	-	65	-	65	168	233	-	262	-	262	296	
Total or average-----	59	48	13	5	18	387	-	405	691	1,096	229	238	-	238	265	
Man-days worked																
Man-hours worked																
Underground mines	Underground	Surface	Total	Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Grand total	
									Underground	Surface	Total					
Arkansas-----	-	-	-	815	-	815	3,913	4,728	-	-	6,520	-	6,520	31,301	37,821	
California-----	-	-	-	1,210	-	1,210	3,000	4,210	-	-	8,360	-	8,360	24,000	32,360	
Georgia-----	1,260	252	1,512	2,592	-	4,104	23,160	27,264	10,080	12,096	20,736	-	32,832	185,280	218,112	
Maine-----	1,796	822	2,618	-	-	2,618	2,032	4,650	16,169	7,394	36,905	-	23,563	41,844	41,844	
New York-----	-	-	-	4,613	-	4,613	2,609	7,222	-	-	36,905	-	36,905	20,873	57,778	
North Carolina-----	-	-	-	5,320	-	5,320	3,920	9,240	-	-	42,560	-	42,560	31,360	73,920	
Pennsylvania-----	-	-	-	38,275	-	38,275	74,143	112,418	-	-	309,635	-	309,635	61,163	371,163	
Vermont-----	-	-	-	22,349	-	22,349	42,978	65,327	-	-	189,635	-	189,635	101,997	291,163	
Virginia-----	-	-	-	17,007	-	17,007	49,693	66,700	-	-	126,865	-	126,865	379,394	506,259	
Total-----	3,056	1,074	4,130	92,181	-	96,311	183,099	279,410	26,249	9,410	35,659	-	776,892	1,474,018	2,250,910	

TABLE A-23. - Injury experience and worktime data by general work location at traprock operations in the United States, by State, 1970

State	Fatal					Nonfatal						
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Injuries			
	Underground mines		Underground mines						Total			
	Underground	Surface	Underground							Surface		
Alaska-----	-	-	-	1	-	1	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-
California-----	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-
Delaware-----	-	-	-	-	-	-	-	-	-	-	-	-
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana-----	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-
New York-----	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania-----	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	3	-	3	-	-	-	180	99	279

TABLE A-23. - Injury experience and worktime data by general work location at traprock operations in the United States, by State, 1970 - Continued

State	Active operations		Average men working daily					Average days active							
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alaska-----	3	1	-	-	-	29	-	29	5	34	-	134	-	134	60
Arizona-----	8	2	-	-	-	20	-	20	6	26	-	256	-	256	256
California-----	15	6	-	-	-	81	-	81	81	162	-	220	-	220	221
Colorado-----	6	2	-	-	-	45	-	45	9	54	-	249	-	249	250
Connecticut-----	12	10	-	-	-	117	-	117	175	292	-	239	-	239	233
Hawaii-----	7	7	-	-	-	183	-	183	49	232	-	275	-	275	269
Idaho-----	19	10	-	-	-	106	-	106	52	158	-	157	-	157	141
Kansas-----	-	1	-	-	-	-	-	-	3	3	-	-	-	-	166
Maryland-----	5	5	-	-	-	147	-	147	153	300	-	289	-	289	292
Massachusetts-----	16	17	-	-	-	168	-	168	111	279	-	220	-	220	277
Michigan-----	2	2	-	-	-	7	-	7	2	9	-	50	-	50	36
Minnesota-----	1	1	-	-	-	11	-	11	4	15	-	131	-	131	131
Missouri-----	1	1	-	-	-	5	-	5	1	6	-	256	-	256	177
Montana-----	4	4	-	-	-	22	-	22	5	27	-	250	-	250	250
New Jersey-----	21	20	-	-	-	401	-	401	263	664	-	236	-	236	253
New Mexico-----	10	19	-	-	-	15	-	15	3	18	-	181	-	181	177
New York-----	3	3	-	-	-	83	-	83	45	128	-	306	-	306	329
North Carolina-----	9	7	-	-	-	113	-	113	44	157	-	260	-	260	256
Oregon-----	268	169	2	1	3	799	-	802	254	1,056	277	207	-	207	199
Pennsylvania-----	21	18	-	-	-	170	-	170	185	355	-	263	-	263	250
South Dakota-----	1	1	-	-	-	2	-	2	2	4	-	180	-	180	-
Texas-----	2	2	-	-	-	10	-	10	3	13	-	249	-	249	240
Virginia-----	11	9	-	-	-	105	-	105	67	172	-	256	-	256	261
Washington-----	235	81	-	-	-	492	-	492	105	597	-	184	-	184	200
Wisconsin-----	3	3	-	-	-	44	-	44	75	119	-	207	-	207	255
Wyoming-----	3	1	-	-	-	3	-	3	1	4	-	252	-	252	252
Total or average-----	686	394	2	1	3	3,178	-	3,181	1,701	4,882	277	224	-	224	238

TABLE A-24. - Injury experience and worktime data by general work location at miscellaneous stone operations in the United States, by State, 1970

State	Fatal					Nonfatal					Grand total					
	Underground mines			Open quarries	Total mining activities	Mills	Grand total	Underground mines				Open quarries	Total mining activities	Mills		
	Underground	Surface	Total					Underground	Surface	Total						
Injuries																
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	5	-	-	1	6
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
California-----	-	-	-	-	-	1	-	1	-	-	-	15	-	-	14	29
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	2
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	4
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	3
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1	7
Nebraska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	3	-	-	4	7
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	5
New York-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	5
Pennsylvania-----	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	3
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas-----	-	-	-	-	-	-	-	-	-	-	-	4	-	-	3	7
Utah-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Total-----	-	-	-	-	-	1	-	1	-	-	-	51	-	-	37	88

TABLE A-24. - In-bury experience and worktime data by general work location at miscellaneous stone operations in the United States, by State, 1970 - Continued

State	Active operations		Average men working daily						Average days active						
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alaska-----	10	10	-	-	-	106	-	106	26	132	-	200	-	200	201
Arizona-----	12	5	-	-	-	19	-	19	6	25	-	203	-	203	166
California-----	61	22	-	-	-	230	-	230	231	461	-	206	-	206	257
Colorado-----	20	8	-	-	-	67	-	67	14	81	-	201	-	201	204
Hawaii-----	23	9	-	-	-	45	-	45	6	51	-	170	-	170	199
Idaho-----	1	-	-	-	-	4	-	4	-	4	-	120	-	120	-
Indiana-----	15	-	-	-	-	13	-	13	-	13	-	93	-	93	-
Iowa-----	2	2	-	-	-	10	-	10	12	22	-	162	-	162	162
Maine-----	2	4	-	-	-	20	-	20	6	26	-	262	-	262	239
Maryland-----	5	4	-	-	-	32	-	32	13	45	-	178	-	178	179
Massachusetts-----	3	3	-	-	-	30	-	30	2	32	-	169	8	177	228
Michigan-----	17	2	-	-	-	2	-	2	-	2	-	78	-	78	-
Minnesota-----	1	2	-	-	-	10	-	10	65	75	-	241	-	241	238
Missouri-----	2	-	-	-	-	131	-	131	26	157	-	224	-	224	223
Montana-----	20	20	-	-	-	2	-	2	9	21	-	32	-	32	-
Nevada-----	3	-	-	-	-	12	-	12	28	40	-	155	-	155	193
New Hampshire-----	2	2	-	-	-	39	-	39	10	49	-	167	-	167	138
New Jersey-----	2	2	-	-	-	6	-	6	9	15	-	204	-	204	204
New Mexico-----	23	19	-	-	-	3	-	3	1	4	-	237	-	237	223
New York-----	1	1	-	-	-	1	-	1	1	2	-	223	-	223	223
North Dakota-----	7	1	-	-	-	1	-	1	1	2	-	223	-	223	223
Oklahoma-----	1	1	-	-	-	96	-	96	20	116	-	223	-	223	213
Oregon-----	7	4	-	-	-	68	-	68	14	82	-	256	-	256	268
Pennsylvania-----	8	5	-	-	-	10	-	10	6	16	-	168	-	168	180
Rhode Island-----	2	1	-	-	-	2	-	2	-	2	-	102	-	102	-
South Dakota-----	1	-	-	-	-	76	-	76	72	148	-	298	-	298	350
Texas-----	3	2	-	-	-	10	-	10	1	11	-	195	-	195	-
Utah-----	10	-	-	-	-	53	-	53	157	210	-	230	-	230	117
Vermont-----	1	1	-	-	-	20	-	20	2	22	-	133	-	133	229
Virginia-----	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington-----	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming-----	27	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Total or average-----	307	130	-	-	-	1,133	1	1,134	737	1,871	-	211	8	211	247

[illegible]

TABLE A-25. - Injury experience and worktime data by general work location at stone quarries and mills in the United States, by State, 1970 - Continued

State	Fatal				Nonfatal							Grand total			
	Underground mines			Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining		Total mining activities	Mills	
	Underground	Surface					Underground	Surface							Total
		Total						Total							
Severity rates per million man-hours															
Alabama-----	-	-	-	10,164	-	1,533	1,077	93	20,824	3,593	302	752	507	244	322
Alaska-----	-	-	-	-	-	-	8,391	-	-	-	625	-	625	1,266	737
Arizona-----	-	-	-	-	-	-	-	-	-	-	303	-	303	18	111
Arkansas-----	-	-	-	-	-	-	-	433	57	255	4,920	-	4,331	615	1,983
California-----	-	-	8,640	7,375	-	-	1,680	464	167	405	2,065	129	1,812	257	1,983
Colorado-----	-	-	-	-	-	-	-	-	-	-	274	-	274	166	215
Connecticut-----	-	-	-	-	-	-	-	-	-	-	1,488	-	1,488	880	1,112
Florida-----	-	-	-	4,418	-	1,690	2,873	-	-	-	612	427	1,200	569	588
Georgia-----	-	-	2,565	2,401	-	-	931	436	-	356	1,258	-	1,200	976	1,063
Hawaii-----	-	-	-	-	-	-	-	-	-	-	2,223	-	2,223	928	1,552
Idaho-----	-	-	-	-	-	-	-	-	-	-	467	-	424	583	475
Illinois-----	-	-	-	3,715	-	1,258	2,250	809	12	646	1,036	-	986	681	804
Indiana-----	-	-	-	2,589	-	857	-	-	-	-	804	-	793	731	752
Iowa-----	-	-	-	2,554	-	1,799	1,027	351	76	294	734	-	701	471	570
Kansas-----	-	-	-	-	-	-	-	329	3,560	734	329	-	1,383	467	415
Kentucky-----	19,536	6,331	-	-	-	-	1,417	393	892	555	1,769	-	1,383	495	1,112
Louisiana-----	-	-	-	2,012	-	-	-	-	-	-	-	621	495	1,835	1,132
Maine-----	-	-	-	-	-	-	-	2,103	-	1,443	28	-	282	-	75
Maryland-----	-	-	-	-	-	-	-	-	-	-	702	-	679	633	651
Massachusetts-----	-	-	-	-	-	7,129	4,273	-	-	-	556	-	556	734	663
Michigan-----	-	-	-	-	-	-	-	4,167	-	3,333	364	-	364	215	251
Minnesota-----	-	-	-	-	-	-	-	-	-	-	863	-	863	1,116	1,051
Mississippi-----	-	-	-	-	-	-	-	-	-	-	515	-	515	-	135
Missouri-----	7,930	6,356	-	1,575	-	-	644	193	16	158	589	-	482	2,006	1,383
Montana-----	-	-	-	-	-	-	-	-	-	-	615	-	615	634	632
Nebraska-----	-	-	-	-	-	-	-	64	-	51	271	-	259	406	338
Nevada-----	-	-	-	-	-	-	-	-	-	-	484	-	484	1,155	835
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	599	-	599	374	437
New Jersey-----	-	-	-	-	-	-	-	-	-	-	849	-	849	627	743
New Mexico-----	-	-	-	-	-	-	-	-	-	-	901	-	901	375	645
New York-----	-	-	5,372	5,299	-	1,316	2,637	-	-	-	1,983	-	1,956	521	997
North Carolina-----	-	-	-	-	-	3,177	1,357	-	-	-	399	-	399	578	475
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	-	-	-	-	-	-	-	32	-	27	782	-	714	495	543
Oklahoma-----	-	-	-	-	-	-	-	813	-	564	797	-	780	559	673
Oregon-----	-	-	3,898	3,879	-	-	2,424	-	-	-	696	-	692	5,623	2,560
Pennsylvania-----	-	-	4,383	3,763	-	513	1,661	478	361	459	822	-	770	1,218	1,066
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	387	-	387	76	199
South Carolina-----	-	-	-	7,223	-	4,995	5,906	-	-	-	721	-	721	144	380
South Dakota-----	-	-	13,094	13,094	-	-	5,601	-	-	-	1,183	-	1,183	54	537
Tennessee-----	-	-	7,410	7,131	-	1,785	4,078	-	-	-	3,741	-	3,600	978	2,103
Texas-----	-	-	1,711	1,485	-	853	1,084	-	-	-	784	1,805	910	1,231	1,114
Utah-----	-	-	-	-	-	-	-	-	-	-	877	-	802	474	590
Vermont-----	-	-	-	-	-	-	-	390	-	314	1,710	-	1,403	681	1,043
Virginia-----	-	-	-	5,227	-	-	2,351	532	-	437	2,134	-	2,135	338	1,146
Washington-----	-	-	-	-	-	-	-	-	-	-	1,010	-	1,010	1,353	1,164
West Virginia-----	-	-	-	4,569	-	-	2,444	13	2,703	638	546	-	570	777	777
Wisconsin-----	-	-	-	-	-	8,379	3,830	-	-	-	823	-	823	756	792
Wyoming-----	-	520,833	84,459	29,830	-	-	14,629	-	-	-	115	-	75	517	300
Combined rate-----	1,277	8,811	2,970	7,898	2,390	754	1,400	356	722	438	1,122	980	1,062	780	891

TABLE A-25. - Injury experience and worktime data by general work location at stone quarries and mills in the United States, by State, 1970 - Continued

State	Active operations			Average men working daily							Average days active					
	Under-ground mines	Surface mines	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
				Underground	Surface	Total										
Alabama-----	2	66	57	35	7	42	717	26	785	1,646	2,431	273	245	321	249	289
Alaska-----	-	25	21	-	-	-	323	-	323	68	391	-	204	-	204	204
Arizona-----	37	93	37	34	-	62	199	-	199	288	487	-	224	-	224	317
Arkansas-----	3	89	50	34	28	114	458	-	520	818	1,338	286	257	-	261	296
California-----	4	207	107	119	25	144	1,094	44	1,282	3,098	4,381	236	235	243	236	332
Colorado-----	1	160	33	2	-	2	383	-	385	298	683	10	197	-	196	311
Connecticut-----	-	26	17	-	-	-	157	-	157	408	1,357	-	242	-	242	247
Florida-----	-	94	67	-	-	-	1,072	63	1,135	1,327	2,462	-	268	189	264	311
Georgia-----	6	81	80	53	12	65	1,049	-	1,114	1,734	2,848	261	251	-	251	264
Hawaii-----	-	40	24	-	-	-	281	-	281	261	542	-	256	-	256	319
Idaho-----	-	13	10	3	-	13	207	-	220	109	329	296	181	-	187	177
Illinois-----	11	28	163	142	35	177	1,314	-	1,491	2,032	3,523	271	251	-	253	284
Indiana-----	2	134	112	10	4	14	1,155	-	1,169	1,307	2,466	269	239	-	239	295
Iowa-----	10	268	126	68	16	84	1,075	-	1,159	1,307	2,466	267	239	-	241	300
Kansas-----	5	172	90	65	18	83	596	-	679	851	1,530	245	269	-	266	275
Kentucky-----	25	93	114	326	156	482	1,001	-	1,483	596	2,079	242	238	-	239	251
Louisiana-----	-	9	13	-	-	-	85	195	280	285	565	-	260	333	311	327
Maine-----	1	11	8	8	4	12	50	-	62	133	195	218	256	-	249	336
Maryland-----	2	41	43	12	3	15	598	7	620	837	1,457	176	255	329	254	296
Massachusetts-----	-	35	36	-	-	-	314	-	314	404	718	-	216	-	216	256
Michigan-----	1	59	47	4	1	5	797	1	803	2,173	2,976	240	256	8	256	309
Minnesota-----	-	95	60	-	-	-	407	-	407	885	1,292	-	195	-	195	257
Mississippi-----	-	4	3	-	-	-	28	-	28	97	125	-	240	-	240	203
Missouri-----	37	214	198	336	84	420	1,433	-	1,853	2,328	4,181	279	238	-	247	293
Montana-----	-	44	40	-	-	-	270	-	270	189	459	-	240	-	240	276
Nebraska-----	2	34	24	11	3	14	288	-	302	298	600	282	251	-	252	322
Nevada-----	-	21	15	-	-	-	135	-	159	135	294	-	240	-	240	326
New Hampshire-----	-	6	5	-	-	-	52	-	52	120	172	-	220	-	220	244
New Jersey-----	-	34	34	-	-	-	517	-	517	429	946	-	243	-	243	258
New Mexico-----	-	68	63	-	-	-	151	-	151	96	247	-	199	-	199	297
New York-----	2	103	102	13	3	16	1,183	-	1,199	1,860	3,059	240	228	-	228	302
North Carolina-----	-	110	83	-	-	-	1,206	-	1,206	867	2,073	-	248	-	248	262
North Dakota-----	-	7	1	-	-	-	3	-	3	1	4	-	237	-	237	223
Ohio-----	4	196	179	177	26	203	1,578	-	1,781	3,601	5,382	204	255	-	249	283
Oklahoma-----	2	100	75	31	13	44	653	-	697	594	1,291	295	251	-	254	283
Oregon-----	2	285	187	5	7	12	919	-	926	499	1,425	136	209	-	209	232
Pennsylvania-----	11	269	242	367	64	431	2,682	-	3,113	4,788	7,901	253	243	-	244	296
Rhode Island-----	-	2	2	-	-	-	19	-	19	24	43	-	224	-	224	272
South Carolina-----	-	21	16	-	-	-	369	-	369	455	824	-	257	-	257	315
South Dakota-----	-	38	22	-	-	-	224	-	224	244	524	-	244	-	244	237
Tennessee-----	4	133	124	24	18	42	1,179	-	1,221	1,460	2,681	247	236	-	236	273
Texas-----	2	228	169	7	1	8	1,416	138	1,562	2,704	4,266	252	271	339	277	318
Utah-----	1	37	16	5	5	10	159	-	169	219	388	307	204	-	210	300
Vermont-----	4	37	29	111	27	138	540	-	678	613	1,291	259	241	-	245	256
Virginia-----	4	137	122	132	24	156	1,457	-	1,613	1,925	3,538	299	247	-	252	269
Washington-----	-	274	100	-	-	-	612	-	612	379	991	-	183	-	183	241
West Virginia-----	8	46	43	112	33	145	419	-	564	618	1,182	258	244	-	248	264
Wisconsin-----	-	392	151	-	-	-	997	-	997	714	1,711	-	198	-	198	247
Wyoming-----	1	49	10	31	6	37	94	-	131	84	215	240	169	-	189	306
Total or average-----	158	4,957	3,373	2,250	621	2,871	31,939	474	35,284	46,726	82,010	256	240	306	242	290

TABLE A-26. - Injury experience and worktime data on offiworkers at stone quarries and mills in the United States, by kind of stone, 1970

Kind of stone	Injuries			Frequency rates per million man-hours			Severity rates per million man-hours			Average men working daily	Average days active	Man-days worked	Man-hours worked
	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total				
Cement 1/ -----	-	1	1	-	0.22	0.22	-	2	2	2,121	264	559,243	4,477,802
Granite -----	-	3	3	-	2.84	2.84	-	34	34	487	256	124,476	1,056,304
Limestone -----	-	5	5	-	.83	.83	-	13	13	2,766	260	718,872	6,011,263
Limestone (chief product, lime) -----	-	2	2	-	1.25	1.25	-	11	11	762	261	199,141	1,597,802
Marble -----	-	-	-	-	-	-	-	-	-	191	252	48,091	387,052
Sandstone -----	-	2	2	-	2.21	2.21	-	19	19	446	252	112,209	905,825
Slate -----	-	-	-	-	-	-	-	-	-	56	251	14,032	108,662
Traprock -----	-	-	-	-	-	-	-	-	-	308	232	71,483	578,087
Miscellaneous stone -----	-	-	-	-	-	-	-	-	-	121	244	29,580	239,074
Total or average -----	-	13	13	-	.85	.85	-	10	10	7,258	259	1,877,127	15,361,871

1/ Includes limestone or other stones used in manufacturing cement.

TABLE A-27. - Injury experience and worktime data on offiworkers at stone quarries and mills in the United States, by State, 1970

State	Injuries			Frequency rates per million man-hours			Severity rates per million man-hours			Average men working	Average days active	Man-days worked	Man-hours worked
	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total				
Alabama -----	-	-	-	-	-	-	-	-	-	227	257	58,299	469,476
Arizona -----	-	-	-	-	-	-	-	-	-	23	285	6,561	50,298
Arkansas -----	-	-	-	-	-	-	-	-	-	122	262	31,946	254,207
California -----	-	1	1	-	1.03	1.03	-	4	4	474	256	121,470	971,743
Colorado -----	-	1	1	-	15.45	15.45	-	216	216	35	236	8,269	64,737
Connecticut -----	-	-	-	-	-	-	-	-	-	41	248	10,181	80,585
Florida -----	-	1	1	-	3.09	3.09	-	93	93	156	255	39,816	323,535
Georgia -----	-	-	-	-	-	-	-	-	-	219	255	55,864	459,260
Hawaii -----	-	-	-	-	-	-	-	-	-	51	249	12,717	101,776
Idaho -----	-	-	-	-	-	-	-	-	-	9	171	1,542	11,528
Illinois -----	-	1	1	-	1.21	1.21	-	23	23	364	276	100,497	824,798
Indiana -----	-	1	1	-	1.35	1.35	-	28	28	341	265	90,341	741,062
Iowa -----	-	-	-	-	-	-	-	-	-	179	258	46,190	381,179
Kansas -----	-	-	-	-	-	-	-	-	-	128	262	33,539	277,853
Kentucky -----	-	-	-	-	-	-	-	-	-	201	264	53,138	444,313
Louisiana -----	-	-	-	-	-	-	-	-	-	43	249	10,716	85,731
Maine -----	-	-	-	-	-	-	-	-	-	17	257	4,364	35,157
Maryland -----	-	-	-	-	-	-	-	-	-	113	262	29,613	251,911
Massachusetts -----	-	-	-	-	-	-	-	-	-	105	247	25,908	206,001
Michigan -----	-	-	-	-	-	-	-	-	-	348	271	94,462	757,923
Minnesota -----	-	1	1	-	3.13	3.13	-	88	88	145	256	37,071	319,872
Mississippi -----	-	-	-	-	-	-	-	-	-	6	234	1,404	11,234
Missouri -----	-	-	-	-	-	-	-	-	-	439	271	119,026	968,330
Montana -----	-	-	-	-	-	-	-	-	-	22	235	5,164	41,311
Nebraska -----	-	-	-	-	-	-	-	-	-	40	261	10,430	86,172
Nevada -----	-	-	-	-	-	-	-	-	-	23	266	6,108	48,865
New Hampshire -----	-	-	-	-	-	-	-	-	-	27	253	6,820	54,560
New Jersey -----	-	1	1	-	5.08	5.08	-	20	20	114	218	24,822	196,778
New Mexico -----	-	-	-	-	-	-	-	-	-	6	244	1,462	11,694
New York -----	-	-	-	-	-	-	-	-	-	297	254	75,483	631,039
North Carolina -----	-	-	-	-	-	-	-	-	-	99	248	24,562	210,221
Ohio -----	-	-	-	-	-	-	-	-	-	677	254	172,004	1,391,937
Oklahoma -----	-	-	-	-	-	-	-	-	-	53	254	13,450	111,104
Oregon -----	-	1	1	-	15.79	15.79	-	111	111	35	226	7,914	63,322
Pennsylvania -----	-	2	2	-	1.34	1.34	-	11	11	706	257	181,474	1,488,528
Rhode Island -----	-	-	-	-	-	-	-	-	-	5	242	1,212	9,192
South Carolina -----	-	-	-	-	-	-	-	-	-	43	260	11,186	90,526
South Dakota -----	-	-	-	-	-	-	-	-	-	36	232	8,336	67,354
Tennessee -----	-	-	-	-	-	-	-	-	-	233	251	58,495	516,966
Texas -----	-	3	3	-	3.63	3.63	-	16	16	377	266	100,384	826,778
Utah -----	-	-	-	-	-	-	-	-	-	20	230	4,605	36,158
Vermont -----	-	-	-	-	-	-	-	-	-	21	259	5,437	43,332
Virginia -----	-	-	-	-	-	-	-	-	-	328	263	86,307	718,467
Washington -----	-	-	-	-	-	-	-	-	-	72	278	19,983	159,399
West Virginia -----	-	-	-	-	-	-	-	-	-	89	265	23,565	188,649
Wisconsin -----	-	-	-	-	-	-	-	-	-	137	233	31,865	251,388
Wyoming -----	-	-	-	-	-	-	-	-	-	12	260	3,125	25,622
Total or average -----	-	13	13	-	.85	.85	-	10	10	7,258	259	1,877,127	15,361,871

APPENDIX B. --TABLES FOR 1971

TABLE B-1. - Injury experience by degree and worktime data on stone quarries and mills in the United States, by general work location, 1971

General work location	Injuries						Frequency rates per million man-hours			Severity rates per million man-hours			Active operations	Average men working daily	Average days active	Man-days worked	Man-hours worked
	Fatal	Nonfatal			All injuries	Fatal	Non-fatal	All injuries	Fatal	Non-fatal	All injuries						
		Permanent	Total non-fatal														
			Tempo- rary total	Total non-fatal													
												Total					
Underground mines: Underground----- Surface-----	6 1	- -	1 1	130 60	136 62	1.40 .79	30.31 48.24	31.71 49.03	8,393 4,745	824 1,293	9,217 6,038	162 -	2,038 584	256 258	521,922 150,622	4,289,173 1,264,592	
Total or average----- Open quarries----- Other surface mining-----	7 30 -	- 1 -	1 34 2	190 1,478 78	198 1,543 80	1.26 .46 -	34.39 23.20 59.35	35.65 23.66 59.35	7,562 2,760 -	931 963 -	8,493 3,724 1,404	162 4,990 27	2,622 32,720 422	256 234 315	572,544 7,672,775 133,055	5,553,765 65,209,445 1,348,008	
Total or average, mining----- Mills-----	37 21	1 1	37 63	1,746 2,045	1,821 2,130	.51 .19	24.74 18.75	25.25 18.93	3,079 1,120	969 854	4,048 1,974	5,179 3,558	35,764 47,042	237 290	8,478,374 13,647,557	72,111,218 112,503,948	
Grand total or average-----	58	2	100	3,791	3,951	.31	21.09	21.40	1,885	899	2,784	8,737	82,806	267	22,125,931	184,615,166	

TABLE B-2. - Number and average severity of injuries by degree at stone quarries and mills in the United States, by general work location and detailed cause, 1971

General work location and detailed cause of injury	Injuries						Average severity		
	Fatal	Nonfatal				All injuries	Permanent partial	Temporary total	All injuries
		Permanent		Temporary total	Total non-fatal				
		Total	Partial						
UNDERGROUND MINES									
Underground:									
Falls of roof or back:									
While mining-----	-	-	-	2	2	2	-	22	22
While testing or barring down back-----	-	-	-	2	2	2	-	32	32
All other-----	1	-	-	-	-	1	-	-	6,000
Falls of face or side:									
While mining-----	-	-	-	7	7	7	-	25	25
All other-----	-	-	-	1	1	1	-	1	1
Sliding or falling material or objects:									
From car, bin, platform, or chute-----	-	-	-	2	2	2	-	22	22
Falling cage-----	4	-	-	-	-	4	-	-	6,000
From stockpile, dump, or gob-----	-	-	-	4	4	4	-	12	12
Slips or falls of persons:									
On same level:									
While handling material-----	-	-	-	5	5	5	-	4	4
While operating or moving machinery-----	-	-	-	3	3	3	-	2	2
All other-----	-	-	-	3	3	3	-	5	5
From an elevation:									
While handling material-----	-	-	-	4	4	4	-	50	50
While operating or moving machinery-----	-	-	-	3	3	3	-	5	5
Caused by failure of scaffold, ladder, or other support-----	-	-	-	3	3	3	-	49	49
All other-----	-	-	-	4	4	4	-	76	76
Handling material:									
Prop, stull, or timber-----	-	-	-	2	2	2	-	8	8
Ore, valuable mineral-----	-	-	-	10	10	10	-	14	14
Rock or waste-----	-	-	-	1	1	1	-	3	3
Rail-----	-	-	-	1	1	1	-	22	22
Wire or wire rope-----	-	-	-	2	2	2	-	19	19
Flying particle while handling material-----	-	-	-	2	2	2	-	1	1
All other-----	-	-	-	19	19	19	-	21	21
Handtools:									
Hammer or sledge-----	-	-	-	4	4	4	-	18	18
Flying particle from tool or object worked on-----	-	-	-	1	1	1	-	1	1
All other-----	-	-	-	1	1	1	-	16	16
Stepping or kneeling on sharp or loose objects: Stepping on loose object-----	-	-	-	1	1	1	-	12	12
Striking or bumping against objects-----	-	-	-	2	2	2	-	36	36
Haulage:									
Cages, cars, or motors:									
Squeezed between cage, car, or motor, and other object:									
Pulling, pushing, or dropping-----	-	-	-	1	1	1	-	3	3
Operating or riding-----	-	-	-	1	1	1	-	37	37
All other-----	-	-	-	1	1	1	-	35	35
Falling, slipping, or jumping into or from-----	-	-	-	1	1	1	-	157	157
Railroad cars and locomotives-----	-	-	-	3	3	3	-	3	3
Automobiles, gasoline or diesel trucks:									
While operating-----	-	-	-	2	2	2	-	12	12
Slip or fall on or from-----	-	-	-	3	3	3	-	25	25
Miscellaneous haulage:									
Riding or getting on or off conveyor belt-----	-	-	-	1	1	1	-	4	4
Explosives:									
Misfire or digging into unexploded hole-----	1	-	-	-	-	1	-	-	6,000
Machinery:									
Belt conveyor-----	-	-	-	1	1	1	-	6	6
Chain, bucket, shaker, or screw conveyor-----	-	-	-	1	1	1	-	3	3
Power drill, rotary or percussive (except rock bolting)-----	-	-	-	9	9	9	-	15	15
Power shovel, dragline, bulldozer, etc.-----	-	-	-	3	3	3	-	128	128
Stationary machinery-----	-	-	-	1	1	1	-	49	49
While moving any machine except mining or loading-----	-	-	-	3	3	3	-	68	68
Particle set in motion by machinery (except rock bolting)-----	-	-	-	2	2	2	-	2	2
Fires or suffocation from fires:									
Oil, gasoline, other flammable liquid-----	-	-	-	2	2	2	-	204	204
All other-----	-	-	-	1	1	1	-	10	10
Miscellaneous causes:									
Acetylene or electric welding or cutting-----	-	-	-	1	1	1	-	1	1
Irritation or burn from caustic or acid-----	-	-	-	1	1	1	-	10	10
Burn from controlled fire-----	-	-	-	1	1	1	-	9	9
All other-----	-	-	-	1	1	1	-	22	22
Pneumoconiosis-----	-	-	-	1	1	1	-	56	56
Total or average, underground-----	6	-	-	130	130	136	-	27	291
Surface at underground:									
Sliding or falling material or objects: Falling cage-----	-	-	-	1	1	1	-	4	4
Slips or falls of persons:									
On same level-----	-	-	-	2	2	2	-	6	6
From an elevation: While handling material-----	-	-	-	2	2	2	-	63	63
Handling material:									
Ore, valuable mineral-----	-	-	-	1	1	1	-	73	73
Rock or waste-----	-	-	-	1	1	1	-	1	1
Flying particle while handling material-----	-	-	-	1	1	1	-	1	1
All other-----	-	-	-	11	11	11	-	23	23
Handtools: Hammer or sledge-----	-	-	-	2	2	2	-	2	2
Stepping or kneeling on sharp or loose objects: Stepping on loose object-----	-	-	-	1	1	1	-	44	44
Striking or bumping against objects-----	-	-	-	1	1	1	-	45	45

TABLE 8-2. - Number and average severity of injuries by degrees at stone quarries and mills in the United States, by general work location and detailed cause, 1971 - Continued

General work location and detailed causa of injury	Injuries					Average severity			
	Fatal	Nonfatal				All injuries	Permanent partial	Temporary total	All injuries
		Permanent		Temporary total	Total non-fatal				
		Total	Partial						
UNDERGROUND MINES - Continued									
Surface at underground - Continued									
Haulage:									
Shuttle cars, transloaders, and small mobile trucks-----	-	-	1	1	2	2	300	16	158
Railroad cars and locomotives-----	-	-	-	4	4	4	-	39	39
Automobiles, gasoline or diesel trucks:									
While operating-----	-	-	-	6	6	6	-	26	26
Slip or fall on or from-----	-	-	-	13	13	13	-	9	9
Miscellaneous haulage: Rope or cable on haulage-----	-	-	-	1	1	1	-	2	2
Explosives-----	-	-	-	2	2	2	-	80	80
Electricity: Cutout switch or junction box-----	-	-	-	1	1	1	-	18	18
Machinery: Power shovel, dragline, bulldozer, etc-----	1	-	-	4	4	5	-	28	1,222
Miscellaneous causes:									
Acetylene or electric welding or cutting-----	-	-	-	2	2	2	-	6	6
Irritation or burn from caustic or acid-----	-	-	-	3	3	3	-	7	7
Total or average, surface at underground-----	1	-	1	60	61	62	300	22	123
Total or average, underground mines-----	7	-	1	190	191	198	300	26	238
OPEN QUARRIES									
Falls of face or side:									
While mining-----	-	-	1	3	4	4	300	40	105
While loading-----	1	-	-	1	1	2	-	19	3,010
All other-----	-	-	-	1	1	1	-	21	21
Sliding or falling material or objects:									
Dropped or thrown by coworker-----	-	-	-	1	1	1	-	1	1
From car, bin, platform, or chute-----	-	-	-	23	23	23	-	14	14
From stockpile, dump, or gob-----	-	-	-	4	4	4	-	10	10
All other-----	-	-	-	3	3	3	-	12	12
Slips or falls of persons:									
On same level:									
While handling material-----	-	-	-	44	44	44	-	16	16
Caused by handtool slipping or breaking-----	-	-	-	3	3	3	-	27	27
While operating or moving machinery-----	-	-	-	9	9	9	-	23	23
All other-----	-	-	-	68	68	68	-	26	26
From an elevation:									
While escaping another hazard-----	-	-	-	2	2	2	-	130	130
While handling material-----	1	-	2	35	37	38	138	34	196
Caused by handtool slipping or breaking-----	1	-	1	2	3	4	1,500	39	1,894
While operating or moving machinery-----	-	-	-	47	47	47	-	35	35
Caused by failure of scaffold, ladder, or other support-----	-	-	-	12	12	12	-	26	26
All other-----	2	-	-	60	60	62	-	24	217
Handling material:									
Prop, stull, or timber-----	-	-	1	5	6	6	50	20	25
Ore, valuable mineral-----	-	-	1	40	41	41	100	20	22
Rock or waste-----	-	-	1	66	67	67	35	21	21
Rail-----	-	-	-	4	4	4	-	50	50
Wire or wire rope-----	-	-	1	20	21	21	100	14	18
Conveyor pan-----	-	-	-	1	1	1	-	34	34
Flying particle while handling material-----	-	-	1	31	32	32	1,125	9	43
All other-----	1	-	5	234	239	240	105	24	51
Handtools:									
Pick-----	-	-	-	1	1	1	-	56	56
Axe, hatchet, or adz-----	-	-	-	2	2	2	-	22	22
Hammer or sledge-----	-	-	-	18	18	18	-	14	14
Crowbar or bat-----	-	-	-	25	25	25	-	23	23
Shovel-----	-	-	-	8	8	8	-	23	23
In hand of fellow worker-----	-	-	-	6	6	6	-	4	4
Flying particle from tool or object worked on-----	-	-	1	27	28	28	1,800	13	76
All other-----	-	-	-	24	24	24	-	24	24
Stepping or kneeling on sharp or loose objects:									
Stepping on sharp object-----	-	-	-	6	6	6	-	4	4
Stepping on loose object-----	-	-	-	40	40	40	-	15	15
While working on hands and knees-----	-	-	-	1	1	1	-	7	7
Striking or bumping against objects-----	-	-	-	15	15	15	-	9	9
Haulage:									
Skips, car, or motors:									
Struck, run over, or squeezed between:									
Pulling, pushing, or dropping-----	-	-	-	1	1	1	-	4	4
Operating or riding-----	-	-	-	1	1	1	-	71	71
Collision (while under control)-----	-	-	-	1	1	1	-	5	5
Runaway (while not under control)-----	-	-	-	3	3	3	-	46	46
Shuttle cars, transloaders, and small mobile trucks:									
Struck or run over-----	-	-	-	2	2	2	-	65	65
All other-----	-	-	-	7	7	7	-	48	48
Railroad cars and locomotives-----	-	-	-	20	20	20	-	43	43
Automobiles, gasoline or diesel trucks:									
While operating-----	5	1	3	114	118	123	463	33	334
Slip or fall on or from-----	-	-	1	102	103	103	120	37	38
Water transportation:									
Fall of person-----	-	-	-	1	1	1	-	3	3
Rope or chain on boat or barge-----	-	-	-	1	1	1	-	20	20
All other-----	-	-	-	1	1	1	-	5	5
Miscellaneous haulage:									
Rope or cable on haulage-----	-	-	-	4	4	4	-	28	28
Slip or strain from moving car by hand-----	-	-	-	1	1	1	-	5	5
Riding or getting on or off conveyor belt-----	-	-	-	1	1	1	-	71	71
Flying particle-----	-	-	-	2	2	2	-	7	7
All other-----	-	-	-	6	6	6	-	22	22

TABLE B-2. - Number and average severity of injuries by degree at stone quarries and mills in the United States, by general work location and detailed cause, 1971 - Continued

General work location and detailed cause of injury	Injuries					Average severity			
	Fatal	Nonfatal			All injuries	Permanent partial	Temporary total	All injuries	
		Permanent		Temporary total					
		Total	Partial						
OPEN QUARRIES - Continued									
Explosions of gas or dust: Caused by electric arc-----	-	-	-	1	1	1	-	20	20
Explosives:									
Premature shot or blast-----	3	-	-	2	2	5	-	128	3,651
Charging or tamping-----	-	-	-	1	1	1	-	40	40
Misfire or digging into unexploded hole-----	-	-	-	2	2	2	-	2	2
Flying fragments-----	-	-	-	7	7	7	-	30	30
Transporting or handling explosive-----	-	-	-	2	2	2	-	110	110
All other-----	-	-	1	-	1	1	60	-	60
Electricity:									
Power or lighting circuit-----	1	-	-	-	-	1	-	-	6,000
Cutout switch or junction box-----	-	-	-	2	2	2	-	6	6
Cable, cable arc, or blowup-----	-	-	-	1	1	1	-	10	10
All other-----	-	-	-	2	2	2	-	12	12
Machinery:									
Belt conveyor-----	-	-	3	14	17	17	1,300	60	279
Chain, bucket, shaker, or screw conveyor-----	-	-	-	1	1	1	-	1	1
Power drill, rotary or percussive-----	2	-	3	51	54	56	967	24	288
Power shovel, dragline, bulldozer, etc.-----	6	-	2	74	76	82	1,800	35	515
Stationary machinery-----	1	-	4	16	20	21	140	27	333
While moving any machine except mining or loading-----	6	-	-	8	8	14	-	17	2,581
Particle set in motion by machinery-----	-	-	-	26	26	26	-	5	5
All other-----	-	-	2	13	15	15	242	22	51
Fires or suffocation from fires: Oil, gasoline, other flammable liquid-----	-	-	-	6	6	6	-	104	104
Miscellaneous causes:									
Flying particle from draft or wind-----	-	-	-	12	12	12	-	5	5
Acetylene or electric welding or cutting-----	-	-	-	22	22	22	-	9	9
Irritation or burn from caustic or acid-----	-	-	-	10	10	10	-	30	30
Burn from controlled fire-----	-	-	-	16	16	16	-	25	25
All other-----	-	-	-	28	28	28	-	24	24
Pneumoconiosis-----	-	-	-	1	1	1	-	71	71
Total or average, open quarries-----	30	1	34	1,478	1,513	1,543	554	26	157
OTHER SURFACE MINING									
Sliding or falling material or objects:									
From car, bin, platform, or chute-----	-	-	-	1	1	1	-	7	7
Falling equipment or machinery under repair-----	-	-	-	1	1	1	-	40	40
All other-----	-	-	-	1	1	1	-	9	9
Slips or falls of persons:									
On same level:									
While handling material-----	-	-	-	5	5	5	-	51	51
All other-----	-	-	-	3	3	3	-	26	26
Handling material:									
Prop, stull, or timber-----	-	-	-	1	1	1	-	18	18
Rail-----	-	-	-	1	1	1	-	23	23
Wire or wire rope-----	-	-	-	4	4	4	-	8	8
Flying particle while handling material-----	-	-	-	1	1	1	-	5	5
All other-----	-	-	-	17	17	17	-	31	31
Handtools:									
Hammer or sledge-----	-	-	-	3	3	3	-	6	6
Crowbar or bar-----	-	-	-	1	1	1	-	13	13
All other-----	-	-	-	2	2	2	-	34	34
Stepping or kneeling on sharp or loose objects:									
Stepping on sharp object-----	-	-	-	1	1	1	-	3	3
Stepping on loose object-----	-	-	-	1	1	1	-	5	5
Striking or bumping against objects-----	-	-	1	3	4	4	75	10	26
Haulage:									
Water transportation:									
Fall of person-----	-	-	-	10	10	10	-	26	26
Rope or chain on boat or barge-----	-	-	-	4	4	4	-	28	28
All other-----	-	-	-	4	4	4	-	6	6
Miscellaneous haulage: Rope or cable on haulage-----	-	-	-	1	1	1	-	20	20
Machinery:									
Belt Conveyor-----	-	-	-	1	1	1	-	21	21
Power shovel, dragline, bulldozer, etc.-----	-	-	-	2	2	2	-	34	34
Stationary machinery-----	-	-	-	1	1	1	-	10	10
All other-----	-	-	1	-	1	1	75	-	75
Miscellaneous causes:									
Flying particle from draft or wind-----	-	-	-	1	1	1	-	7	7
Acetylene or electric welding or cutting-----	-	-	-	3	3	3	-	12	12
Irritation or burn from caustic or acid-----	-	-	-	1	1	1	-	21	21
Burn from controlled fire-----	-	-	-	2	2	2	-	3	3
All other-----	-	-	-	2	2	2	-	12	12
Total or average, other surface mining-----	-	-	2	78	80	80	75	22	24
Total or average, mining-----	37	1	37	1,746	1,784	1,821	521	26	160

TABLE B-2. - Number and average severity of injuries by degree at stone quarries and mills in the United States, by general work location and detailed cause, 1971 - Continued

General work location and detailed cause of injury	Injuries					Average severity			
	Fatal	Nonfatal			All injuries	Permanent partial	Temporary total	All injuries	
		Permanent		Temporary total					
		Total	Partial						
MILLS									
Sliding or falling material or objects:									
Dropped or thrown by coworker-----	-	-	-	5	5	5	-	20	20
From car, bin, platform, or chute-----	2	-	1	49	50	52	750	33	276
Falling equipment or machinery under repair-----	1	-	-	2	2	3	-	5	2,003
All other-----	1	-	-	9	9	10	-	20	618
Slips or falls of persons:									
On same level:									
While escaping another hazard-----	-	-	-	3	3	3	-	6	6
While handling material-----	-	-	1	69	70	70	150	20	22
Caused by handtool slipping or breaking-----	-	-	-	9	9	9	-	17	17
While operating or moving machinery-----	-	-	-	8	8	8	-	25	25
All other-----	-	-	-	91	91	91	-	28	28
From an elevation:									
While escaping another hazard-----	-	-	-	3	3	3	-	29	29
While handling material-----	2	1	-	52	53	55	-	48	373
Caused by handtool slipping or breaking-----	-	-	1	3	4	4	1,680	18	434
Caused by electric current-----	-	-	-	2	2	2	-	44	44
While operating or moving machinery-----	-	-	-	23	23	23	-	46	46
Caused by failure of scaffold, ladder, or other support-----	1	-	-	28	28	29	-	42	247
All other-----	-	-	1	88	89	89	200	40	42
Handling material:									
Prop, stull, or timber-----	-	-	-	24	24	24	-	21	21
Ore, valuable mineral-----	2	-	2	151	153	155	318	18	99
Rock or waste-----	-	-	-	60	60	60	-	31	31
Rail-----	-	-	1	11	12	12	50	28	29
Wire or wire rope-----	-	-	-	18	18	18	-	14	14
Flying particle while handling material-----	-	-	-	43	43	43	-	5	5
All other-----	-	-	8	382	390	390	258	22	27
Handtools:									
Hammer or sledge-----	-	-	1	39	40	40	50	10	11
Crowbar or bar-----	-	-	3	35	38	38	715	23	78
Shovel-----	-	-	1	3	4	4	50	4	16
Saw-----	-	-	1	2	2	2	170	20	95
In hand of fellow worker-----	-	-	-	5	5	5	-	14	14
Flying particle from tool or object worked on-----	-	-	-	23	23	23	-	22	22
All other-----	-	-	2	29	31	31	130	13	20
Stepping or kneeling on sharp or loose objects:									
Stepping on sharp object-----	-	-	-	11	11	11	-	5	5
Stepping on loose object-----	-	-	-	27	27	27	-	24	24
Striking or bumping against objects-----	-	-	-	42	42	42	-	22	22
Haulage:									
Cages, cars, or motors:									
Squeezed between cage, car, or motor, and other object:									
Operating or riding-----	-	-	-	1	1	1	-	43	43
All other-----	-	-	-	2	2	2	-	96	96
Derailement-----	-	-	-	1	1	1	-	21	21
Collision (while under control)-----	-	-	-	1	1	1	-	24	24
Shuttle cars, transloaders, and small mobile trucks-----	-	-	-	2	2	2	-	8	8
Railroad cars and locomotives-----	2	-	1	71	72	74	3,000	35	237
Automobiles, gasoline or diesel trucks:									
While operating-----	1	-	1	43	44	45	3,000	29	228
Slip or fall on or from-----	-	-	-	44	44	44	-	25	25
Miscellaneous haulage:									
Rope or cable on haulage-----	-	-	-	5	5	5	-	43	43
Slip or strain from moving car by hand-----	-	-	-	2	2	2	-	18	18
Riding or getting on or off conveyor belt-----	1	-	-	1	1	2	-	18	3,009
All other-----	-	-	1	13	14	14	50	26	27
Explosions of gas or dust:									
Explosion of gas or dust on surface of deep mine or in strip pit-----	1	-	-	-	-	1	-	-	6,000
All other-----	-	-	-	2	2	2	-	64	64
Explosives:									
Blowout or "shotgun" blast-----	-	-	-	1	1	1	-	2	2
Flying fragments-----	1	-	-	1	1	2	-	10	3,005
All other-----	-	-	-	1	1	1	-	11	11
Electricity:									
Transformer, generator, or stationary motor-----	-	-	-	1	1	1	-	21	21
Power or lighting circuit-----	1	-	-	2	2	3	-	47	2,031
Cutout switch or junction box-----	-	-	1	18	19	19	100	23	27
All other-----	-	-	-	1	1	1	-	8	8
Machinery:									
Belt conveyor-----	2	-	9	60	69	71	237	38	231
Chain, bucket, shaker, or screw conveyor-----	-	-	2	10	12	12	3,300	46	588
Power drill, rotary or percussive-----	-	-	1	18	19	19	1,800	18	112
Power shovel, dragline, bulldozer, etc.-----	2	-	2	42	44	46	1,650	42	371
Stationary machinery-----	1	-	18	75	93	94	496	40	190
While moving any machine except mining or loading-----	-	-	-	16	16	16	-	27	27
Particle set in motion by machinery-----	-	-	1	25	26	26	50	17	18
All other-----	-	-	2	9	11	11	788	14	155
Fires or suffocation from fires:									
Oil, gasoline, other flammable liquid-----	-	-	-	6	6	6	-	57	57
All Other-----	-	-	-	2	2	2	-	85	85
Miscellaneous causes:									
Flying particle from draft or wind-----	-	-	-	5	5	5	-	5	5
Acetylene or electric welding or cutting-----	-	-	-	42	42	42	-	6	6
Irritation or burn from caustic or acid-----	-	-	-	106	106	106	-	12	12
Burn from controlled fire-----	-	-	-	37	37	37	-	20	20
All other-----	-	-	1	29	30	30	75	14	16
Pneumoconiosis-----	-	-	-	2	2	2	-	4	4
Total or average, mills-----	21	1	63	2,045	2,109	2,130	616	25	104
Grand total or average-----	58	2	100	3,791	3,893	3,951	581	25	130

TABLE B-3. - Fatal injuries and distribution by part of body injured at stone quarries and mills in the United States,
by general work location ^{1/} and detailed cause, 1971

General work location and detailed cause	Injuries										Percentage distribution
	Head, face, neck (excl. eye)	Eye	Trunk	Arm (above wrist)	Wrist, hand, fingers	Leg (above ankle)	Ankle, foot, toes	Multiple	Unclassified (no data)	Total	
UNDERGROUND MINES											
Underground:											
Falls of roof or back-----	-	-	-	-	-	-	-	1	-	1	16.67
Sliding or falling material or objects: Falling cage-----	-	-	-	-	-	-	-	4	-	4	66.67
Explosives: Misfire or digging into unexploded hole-----	-	-	1	-	-	-	-	-	-	1	16.67
Total, underground-----	-	-	1	-	-	-	-	5	-	6	-
Percentage distribution-----	-	-	16.67	-	-	-	-	83.33	-	-	-
Surface at underground:											
Machinery: Power shovel, dragline, bulldozer, etc.-----	-	-	1	-	-	-	-	-	-	1	100.00
Total, surface at underground-----	-	-	1	-	-	-	-	-	-	1	-
Percentage distribution-----	-	-	100.00	-	-	-	-	-	-	-	-
Total, underground mines-----	-	-	2	-	-	-	-	5	-	7	-
Percentage distribution-----	-	-	28.57	-	-	-	-	71.43	-	-	-
OPEN QUARRIES											
Falls of face or side: While loading-----	-	-	-	-	-	-	-	1	-	1	3.33
Slips or falls of persons:											
From an elevation:											
While handling material-----	-	-	-	-	-	-	-	1	-	1	3.33
Caused by handtool slipping or breaking-----	-	-	1	-	-	-	-	-	-	1	3.33
All other-----	1	-	1	-	-	-	-	-	-	2	6.67
Handling material-----	1	-	-	-	-	-	-	-	-	1	3.33
Haulage:											
Automobiles, gasoline or diesel trucks: While operating-----	-	-	-	-	-	-	-	5	-	5	16.67
Explosives: Premature shot or blast-----	-	-	-	-	-	-	-	3	-	3	10.00
Electricity: Power or lighting circuit-----	-	-	-	-	-	-	-	1	-	1	3.33
Machinery:											
Power drill, rotary or percussive-----	1	-	1	-	-	-	-	-	-	2	6.67
Power shovel, dragline, bulldozer, etc.-----	2	-	-	-	-	-	-	4	-	6	20.00
Stationary machinery-----	1	-	-	-	-	-	-	-	-	1	3.33
While moving any machine except mining or loading-----	1	-	1	-	-	-	-	4	-	6	20.00
Total, open quarries-----	7	-	4	-	-	-	-	19	-	30	-
Percentage distribution-----	23.33	-	13.33	-	-	-	-	63.33	-	-	-
Total, mining-----	7	-	6	-	-	-	-	24	-	37	-
Percentage distribution-----	18.92	-	16.22	-	-	-	-	64.86	-	-	-
MILLS											
Sliding or falling material or objects:											
From car, bin, platform, or chute-----	-	-	2	-	-	-	-	-	-	2	9.52
Falling equipment or machinery under repair-----	-	-	1	-	-	-	-	-	-	1	4.76
All other-----	-	-	1	-	-	-	-	-	-	1	4.76
Slips or falls of persons:											
From an elevation:											
While handling material-----	-	-	-	-	-	-	-	2	-	2	9.52
Caused by failure of scaffold, ladder, or other support-----	-	-	1	-	-	-	-	-	-	1	4.76
Handling material: Ore, valuable mineral-----	-	-	2	-	-	-	-	-	-	2	9.52
Haulage:											
Railroad cars and locomotives-----	-	-	1	-	-	-	-	1	-	2	9.52
Automobiles, gasoline or diesel trucks: While operating-----	-	-	-	-	-	-	-	1	-	1	4.76
Miscellaneous haulage: Riding or getting on or off conveyor belt-----	1	-	-	-	-	-	-	-	-	1	4.76
Explosions of gas or dust: Explosion of gas or dust on surface of deep mine or in strip pit-----	1	-	-	-	-	-	-	-	-	1	4.76
Explosives: Flying fragments-----	1	-	-	-	-	-	-	-	-	1	4.76
Electricity: Power or lighting circuit-----	-	-	-	-	-	-	-	1	-	1	4.76
Machinery:											
Belt conveyor-----	-	-	-	1	-	-	-	1	-	2	9.52
Power shovel, dragline, bulldozer, etc.-----	1	-	1	-	-	-	-	-	-	2	9.52
Stationary machinery-----	-	-	1	-	-	-	-	-	-	1	4.76
Total, mills-----	4	-	10	1	-	-	-	6	-	21	-
Percentage distribution-----	19.05	-	47.62	4.76	-	-	-	28.57	-	-	-
Grand total-----	11	-	16	1	-	-	-	30	-	58	-
Percentage distribution-----	18.97	-	27.59	1.72	-	-	-	51.72	-	-	-

^{1/} No fatal injuries were reported at other surface mining at stone quarries and mills.

TABLE B-4. - Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and part of body injured, 1971

General work location and part of body injured	Injuries						Percent- age distrib- ution of all injuries 1/	Average severity			Frequency rates per million man-hours		Severity rates per million man-hours	
	Fatal	Nonfatal				All injuries		Perma- nent partial	Tempo- rary total	All injuries	Fatal	Non- fatal	Fatal	Non- fatal
		Permanent		Tempo- rary total	Total non- fatal									
		Total	Partial											
UNDERGROUND MINES														
Underground:														
Head, face, neck (excl. eye)-----	-	-	-	4	4	4	3.6	-	54	54	-	0.93	-	50
Eye-----	-	-	-	7	7	7	6.3	-	4	4	-	1.63	-	7
Trunk-----	1	-	-	31	31	32	28.8	-	37	224	0.23	7.23	1,399	269
Arm (above wrist)-----	-	-	-	3	3	3	2.7	-	27	27	-	.70	-	19
Wrist, hand, fingers-----	-	-	-	17	17	17	15.3	-	13	13	-	3.96	-	52
Leg (above ankle)-----	-	-	-	18	18	18	16.2	-	30	30	-	4.20	-	127
Ankle, foot, toes-----	-	-	-	17	17	17	15.3	-	30	30	-	3.96	-	118
Multiple-----	5	-	-	8	8	13	11.7	-	62	2,346	1.17	1.87	6,994	116
Unclassified (no data)-----	-	-	-	25	25	25	-	-	11	11	-	5.83	-	66
Total or average-----	6	-	-	130	130	136	-	-	27	291	1.40	30.31	8,393	824
Surface at underground:														
Head, face, neck (excl. eye)-----	-	-	-	3	3	3	6.1	-	4	4	-	2.37	-	9
Eye-----	-	-	-	3	3	3	6.1	-	5	5	-	2.37	-	11
Trunk-----	1	-	-	13	13	14	28.6	-	29	456	.79	10.28	4,745	301
Arm (above wrist)-----	-	-	-	2	2	2	4.1	-	98	98	-	1.58	-	156
Wrist, hand, fingers-----	-	-	1	9	10	10	20.4	300	16	45	-	7.91	-	353
Leg (above ankle)-----	-	-	-	3	3	3	6.1	-	47	47	-	2.37	-	111
Ankle, foot, toes-----	-	-	-	9	9	9	18.4	-	8	8	-	7.12	-	58
Multiple-----	-	-	-	5	5	5	10.2	-	21	21	-	3.95	-	81
Unclassified (no data)-----	-	-	-	13	13	13	-	-	21	21	-	10.28	-	212
Total or average-----	1	-	1	60	61	62	-	300	22	123	.79	48.24	4,745	1,293
Total or average, underground mines-----	7	-	1	190	191	198	-	300	26	238	1.26	34.39	7,562	931
OPEN QUARRIES														
Head, face, neck (excl. eye)-----	7	1	3	65	69	76	7.1	920	20	685	.11	1.06	644	155
Eye-----	-	-	1	60	61	61	5.7	1,800	5	34	-	.94	-	32
Trunk-----	4	-	5	327	332	336	31.4	417	28	105	.06	5.09	368	174
Arm (above wrist)-----	-	-	1	49	50	50	4.7	1,125	22	44	-	.77	-	34
Wrist, hand, fingers-----	-	-	18	117	135	135	12.6	191	18	41	-	2.07	-	84
Leg (above ankle)-----	-	-	1	149	150	150	14.0	3,000	30	50	-	2.30	-	115
Ankle, foot, toes-----	-	-	4	157	161	161	15.0	254	23	29	-	2.47	-	72
Multiple-----	19	-	1	82	83	102	9.5	3,600	46	1,190	.29	1.27	1,748	113
Unclassified (no data)-----	-	-	-	472	472	472	-	-	26	26	-	7.24	-	185
Total or average-----	30	1	34	1,478	1,513	1,543	-	554	26	157	.46	23.20	2,760	963
OTHER SURFACE MINING														
Head, face, neck (excl. eye)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eye-----	-	-	-	4	4	4	6.7	-	5	5	-	2.97	-	16
Trunk-----	-	-	-	22	22	22	36.7	-	40	40	-	16.32	-	645
Arm (above wrist)-----	-	-	-	3	3	3	5.0	-	13	13	-	2.23	-	29
Wrist, hand, fingers-----	-	-	2	12	14	14	23.3	75	18	26	-	10.39	-	271
Leg (above ankle)-----	-	-	-	3	3	3	5.0	-	9	9	-	2.23	-	20
Ankle, foot, toes-----	-	-	-	13	13	13	21.7	-	18	18	-	9.64	-	174
Multiple-----	-	-	-	1	1	1	1.7	-	7	7	-	.74	-	5
Unclassified (no data)-----	-	-	-	20	20	20	-	-	16	16	-	14.84	-	244
Total or average-----	-	-	2	78	80	80	-	75	22	24	-	59.35	-	1,404
Total or average, mining-----	37	1	37	1,746	1,784	1,821	-	521	26	160	.51	24.74	3,079	969
MILLS														
Head, face, neck (excl. eye)-----	4	-	1	92	93	97	6.0	1,800	28	293	.04	.83	213	39
Eye-----	-	-	1	140	141	141	8.7	1,800	11	23	-	1.25	-	29
Trunk-----	10	1	5	524	530	540	33.2	190	28	151	.09	4.71	533	193
Arm (above wrist)-----	1	-	-	66	66	67	4.1	-	30	119	.01	.59	53	17
Wrist, hand, fingers-----	-	-	47	207	254	254	15.6	419	17	92	-	2.26	-	207
Leg (above ankle)-----	-	-	2	146	148	148	9.1	3,000	33	73	-	1.32	-	96
Ankle, foot, toes-----	-	-	5	257	262	262	16.1	516	23	32	-	2.33	-	75
Multiple-----	6	-	2	109	111	117	7.2	3,000	36	393	.05	.99	320	88
Unclassified (no data)-----	-	-	-	504	504	504	-	-	24	24	-	4.48	-	109
Total or average, mills-----	21	1	63	2,045	2,109	2,130	-	616	25	104	.19	18.75	1,120	854
Grand total or average-----	58	2	100	3,791	3,893	3,951	-	581	25	130	.31	21.09	1,885	899

1/ Number of injuries for which part of body is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 111; for surface, 49; for open quarries, 1,071; for other surface mining, 60; and for mills, 1,626. Distribution percentages may not add to 100.0 because of independent rounding.

TABLE B-5. - Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and nature of injury, 1971

General work location and nature of injury	Injuries						Percentage distribution of all injuries 1/	Average severity			Frequency rates per million man-hours		Severity rates per million man-hours	
	Fatal	Nonfatal				All injuries		Permanent partial	Temporary total	All injuries	Fatal	Non-fatal	Fatal	Non-fatal
		Permanent		Temporary total	Total non-fatal									
		Total	Partial											
UNDERGROUND MINES														
Underground:														
Crushing, contusion, bruise-----	-	-	-	35	35	35	31.5	-	14	14	-	8.16	-	112
Burn, scald (except chemical)-----	-	-	-	4	4	4	3.6	-	112	112	-	.93	-	104
Radiation, radiating substance-----	-	-	-	1	1	1	.9	-	1	1	-	.23	-	(2/)
Cut, laceration, puncture-----	-	-	-	13	13	13	11.7	-	19	19	-	3.03	-	56
Foreign body in eye-----	-	-	-	4	4	4	3.6	-	1	1	-	.93	-	1
Fracture-----	6	-	-	16	16	22	19.8	-	63	1,682	1.40	3.73	8,393	234
Hernia (inguinal)-----	-	-	-	1	1	1	.9	-	30	30	-	.23	-	7
Strain, sprain, dislocation-----	-	-	-	29	29	29	26.1	-	28	28	-	6.76	-	187
Pneumoconiosis (except silicosis)-----	-	-	-	1	1	1	.9	-	56	56	-	.23	-	13
Concussion (cerebral)-----	-	-	-	1	1	1	.9	-	184	184	-	.23	-	43
Unclassified (no data)-----	-	-	-	25	25	25	-	-	11	11	-	5.83	-	66
Total or average-----	6	-	-	130	130	136	-	-	27	291	1.40	30.31	8,393	824
Surface at underground:														
Amputation, enucleation-----	-	-	1	-	1	1	2.0	300	-	300	-	.79	-	237
Crushing, contusion, bruise-----	1	-	-	7	7	8	16.3	-	32	778	.79	5.54	4,745	180
Burn, scald (except chemical)-----	-	-	-	1	1	1	2.0	-	18	18	-	.79	-	14
Chemical burn-----	-	-	-	1	1	1	2.0	-	11	11	-	.79	-	9
Radiation, radiating substance-----	-	-	-	2	2	2	4.1	-	6	6	-	1.58	-	10
Cut, laceration, puncture-----	-	-	-	6	6	6	12.2	-	9	9	-	4.74	-	41
Foreign body in eye-----	-	-	-	1	1	1	2.0	-	1	1	-	.79	-	1
Fracture-----	-	-	-	7	7	7	14.3	-	58	58	-	5.54	-	319
Strain, sprain, dislocation-----	-	-	-	21	21	21	42.9	-	16	16	-	16.61	-	267
Other, not elsewhere classified-----	-	-	-	1	1	1	2.0	-	4	4	-	.79	-	3
Unclassified (no data)-----	-	-	-	13	13	13	-	-	21	21	-	10.28	-	212
Total or average-----	1	-	1	60	61	62	-	300	22	123	.79	48.24	4,745	1,293
Total or average, underground mines-----	7	-	1	190	191	198	-	300	26	238	1.26	34.39	7,562	931
OPEN QUARRIES														
Amputation, enucleation-----	-	-	24	-	24	24	2.2	531	-	531	-	.37	-	195
Asphyxiation-----	-	-	-	2	2	2	.2	-	6	6	-	.03	-	(2/)
Crushing, contusion, bruise-----	6	-	2	238	240	246	23.0	622	15	166	.09	3.68	552	73
Burn, scald (except chemical)-----	-	-	-	22	22	22	2.1	-	38	38	-	.34	-	13
Chemical burn-----	-	-	-	8	8	8	.7	-	35	35	-	.12	-	4
Radiation, radiating substance-----	-	-	-	13	13	13	1.2	-	12	12	-	.20	-	2
Cut, laceration, puncture-----	-	-	-	134	134	134	12.5	-	15	15	-	2.05	-	30
Drowning-----	1	-	-	-	-	1	.1	-	-	6,000	.02	-	92	-
Electric shock-----	1	-	-	1	1	2	.2	-	11	3,006	.02	.02	92	(2/)
Foreign body in eye-----	-	-	-	30	30	30	2.8	-	4	4	-	.46	-	2
Fracture-----	21	1	1	185	187	208	19.4	1,500	55	691	.32	2.87	1,932	271
Heat exhaustion, sunstroke-----	-	-	-	1	1	1	.1	-	9	9	-	.02	-	(2/)
Hernia (inguinal)-----	-	-	2	19	21	21	2.0	42	49	49	-	.32	-	16
Strain, sprain, dislocation-----	-	-	1	345	346	346	32.3	450	22	23	-	5.31	-	124
Pneumoconiosis (except silicosis)-----	-	-	-	1	1	1	.1	-	71	71	-	.02	-	1
Concussion (cerebral)-----	-	-	-	5	5	5	.5	-	36	36	-	.08	-	3
Hernia (except inguinal)-----	-	-	1	-	1	1	.1	50	-	50	-	.02	-	1
Freezing, frostbite, etc.-----	-	-	-	1	1	1	.1	-	3	3	-	.02	-	(2/)
Inflammation or irritation of joints, tendons, muscles-----	-	-	-	1	1	1	.1	-	70	70	-	.02	-	1
Hearing loss, impairment-----	-	-	2	-	2	2	.2	1,350	-	1,350	-	.03	-	41
Other, not elsewhere classified-----	-	-	1	-	1	1	.1	60	-	60	-	.02	-	1
Unclassified (no data)-----	1	-	-	472	472	473	-	-	26	38	.02	7.24	92	185
Total or average-----	30	1	34	1,478	1,513	1,543	-	554	26	157	.46	23.20	2,760	963

1/ Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 111; for surface, 49; for open quarries, 1,070; for other surface mining, 60; and for mills, 1,626. Distribution percentages may not add to 100.0 because of independent rounding.

2/ Less than 0.5.

TABLE B-5. - Injuries, distribution, average severity by degree, and injury rates at stone quarries and mills in the United States, by general work location and nature of injury, 1971 - Continued

General work location and nature of injury	Injuries						Percent- age distrib- ution of all injuries 1/	Average severity			Frequency rates per million man-hours		Severity rates per million man-hours	
	Fatal	Nonfatal				All injuries		Perma- nent partial	Tempo- rary total	All injuries	Fatal	Non- fatal	Fatal	Non- fatal
		Permanent		Tempo- rary total	Total non- fatal									
		Total	Partial											
OTHER SURFACE MINING														
Amputation, enucleation-----	-	-	2	-	2	2	3.3	75	-	75	-	1.48	-	111
Crushing, contusion, bruise-----	-	-	-	19	19	19	31.7	-	10	10	-	14.09	-	140
Radiation, radiating substance-----	-	-	-	1	1	1	1.7	-	3	3	-	.74	-	2
Cut, laceration, puncture-----	-	-	-	8	8	8	13.3	-	17	17	-	5.93	-	101
Dermatitis-----	-	-	-	1	1	1	1.7	-	21	21	-	.74	-	16
Foreign body in eye-----	-	-	-	3	3	3	5.0	-	6	6	-	2.23	-	13
Fracture-----	-	-	-	4	4	4	6.7	-	95	95	-	2.97	-	281
Hernia (inguinal)-----	-	-	-	2	2	2	3.3	-	59	59	-	1.48	-	88
Strain, sprain, dislocation-----	-	-	-	20	20	20	33.3	-	27	27	-	14.84	-	407
Unclassified (no data)-----	-	-	-	20	20	20	-	-	16	16	-	14.84	-	244
Total or average-----	-	-	2	78	80	80	-	75	22	24	-	59.35	-	1,404
Total or average, mining-----	37	1	37	1,746	1,784	1,821	-	521	26	160	.51	24.74	3,079	969
MILLS														
Amputation, enucleation-----	1	-	48	-	48	49	3.0	591	-	701	0.01	0.43	53	252
Asphyxiation-----	4	-	-	1	1	5	.3	-	1	4,800	.04	.01	213	(2/)
Crushing, contusion, bruise-----	6	-	2	302	304	310	19.1	1,125	13	136	.05	2.70	320	56
Burn, scald (except chemical)-----	-	-	-	56	56	56	3.4	-	28	28	-	.50	-	14
Chemical burn-----	-	-	-	89	89	89	5.5	-	12	12	-	.79	-	10
Radiation, radiating substance-----	-	-	-	23	23	23	1.4	-	6	6	-	.20	-	1
Cut, laceration, puncture-----	-	-	2	184	186	186	11.4	192	15	17	-	1.65	-	28
Dermatitis-----	-	-	-	3	3	3	.2	-	17	17	-	.03	-	(2/)
Electric shock-----	1	-	-	-	-	1	.1	-	-	6,000	.01	-	53	-
Foreign body in eye-----	-	-	-	58	58	58	3.6	-	8	8	-	.52	-	4
Fracture-----	9	1	6	266	273	282	17.3	969	56	286	.08	2.43	480	238
Heat exhaustion, sunstroke-----	-	-	-	4	4	4	.2	-	3	3	-	.04	-	(2/)
Hernia (inguinal)-----	-	-	4	33	37	37	2.3	50	54	53	-	.33	-	18
Poisoning (systemic)-----	-	-	-	3	3	3	.2	-	4	4	-	.03	-	(2/)
Strain, sprain, dislocation-----	-	-	-	501	501	501	30.8	-	22	22	-	4.45	-	98
Pneumoconiosis (except silicosis)-----	-	-	-	2	2	2	.1	-	4	4	-	.02	-	(2/)
Concussion (cerebral)-----	-	-	-	11	11	11	.7	-	84	84	-	.10	-	8
Hernia (except inguinal)-----	-	-	-	1	1	1	.1	-	6	6	-	.01	-	(2/)
Inflammation or irritation of joints, tendons, muscles-----	-	-	-	4	4	4	.2	-	56	56	-	.04	-	2
Hearing loss, impairment-----	-	-	1	-	1	1	.1	1,800	-	1,800	-	.01	-	16
Unclassified (no data)-----	-	-	-	504	504	504	-	-	24	24	-	4.48	-	109
Total or average, mills-----	21	1	63	2,045	2,109	2,130	-	616	25	104	.19	18.75	1,120	854
Grand total or average-----	58	2	100	3,791	3,893	3,951	-	581	25	130	.31	21.09	1,885	899

1/ Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 111; for surface, 49; for open quarries, 1,070; for other surface mining, 60; and for mills, 1,626. Distribution percentages may not add to 100.0 because of independent rounding.

2/ Less than 0.5.

TABLE B-6. - Injury experience and worktime data on stone quarries and mills in the United States, by general work location and employment size group, 1971

General work location and employment size group	Injuries		Frequency rates per million man-hours		Severity rates per million man-hours		Active operations	Average men working daily	Average days active	Man-days worked	Man-hours worked
	Fatal	Nonfatal	Fatal	Nonfatal	Fatal	Nonfatal					
Underground mines (includes surface work):											
1-4-----	-	6	-	38.88	-	1,899	27	84	223	18,770	154,310
5-9-----	11	11	-	19.45	-	1,851	44	295	230	67,985	565,515
10-19-----	57	376	0.64	3.829	3,829	1,032	54	752	249	186,984	1,566,847
20-34-----	53	53	-	47.65	-	1,318	20	1,318	257	130,249	1,112,268
35-49-----	14	14	-	25.46	-	458	7	282	241	68,021	549,968
50-99-----	44	50	4.63	33.97	27,792	743	9	597	271	161,845	1,295,337
100-149-----	6	6	-	19.38	-	317	1	106	365	38,690	309,520
Total or average-----	7	191	1.26	34.39	7,562	931	162	2,622	256	672,544	5,553,765
Open quarries:											
1-4-----	5	317	.40	25.67	2,430	1,351	2,867	6,706	215	1,442,523	12,347,846
5-9-----	10	408	.66	26.84	3,947	1,259	1,188	7,862	228	1,792,294	15,201,341
10-19-----	7	369	.41	21.83	2,225	827	652	8,387	237	1,986,407	16,900,656
20-34-----	4	199	.38	19.04	2,296	502	201	5,002	246	1,231,775	10,453,992
35-49-----	1	106	.29	30.58	3,086	1,421	40	1,584	259	410,124	3,466,882
50-99-----	3	101	.56	18.85	19,411	477	37	2,501	253	633,582	5,357,278
100-149-----	10	104	-	8.84	-	230	4	519	255	132,345	1,131,650
150-249-----	-	3	-	8.58	-	71	1	159	275	43,725	349,800
Total or average-----	30	1,513	.46	23.20	2,760	963	4,990	32,720	234	7,672,775	65,209,445
Other surface mining:											
1-4-----	-	2	-	298.86	-	15,989	4	10	82	821	6,692
5-9-----	-	15	-	99.25	-	2,700	7	50	327	16,377	151,129
10-19-----	-	11	-	45.96	-	1,040	5	76	320	24,332	239,349
20-34-----	-	51	-	61.37	-	1,285	10	238	322	76,599	831,030
35-49-----	-	1	-	8.35	-	501	1	4.8	312	14,976	119,808
Total or average-----	-	80	-	59.35	-	1,404	27	422	315	133,055	1,348,008
Total or average, mining-----	37	1,784	.51	24.74	3,079	969	5,179	35,764	237	8,478,374	72,111,218
Mills:											
1-4-----	2	361	.25	45.98	1,528	1,927	1,966	4,026	227	915,018	7,851,988
5-9-----	1	346	.10	33.76	3,897	1,998	723	4,925	243	1,198,884	10,249,366
10-19-----	7	280	.65	26.63	3,897	1,114	376	4,988	252	1,255,902	10,777,076
20-34-----	3	294	.26	25.69	1,589	1,490	183	3,079	277	1,356,037	11,327,182
35-49-----	2	142	.30	21.62	1,827	641	66	2,762	291	798,405	6,566,999
50-99-----	2	207	.07	11.25	424	318	149	10,590	320	3,442,319	28,278,154
100-149-----	2	209	.11	11.37	1,137	318	149	7,493	320	2,260,623	18,202,627
150-249-----	4	125	.33	10.37	1,981	351	27	7,938	313	1,457,432	12,184,675
250 or more-----	-	39	-	5.46	-	176	9	2,685	327	877,134	7,137,081
Total or average, mills-----	21	2,109	.19	18.75	1,120	854	3,558	47,042	290	13,647,557	112,503,948
Grand total or average-----	58	3,893	.31	21.09	1,885	899	8,737	82,806	267	22,125,931	184,615,166

TABLE B-7. - Injuries by degree at stone quarries and mills in the United States, by State ^{1/}, 1971

State	Injuriea											
	At quarry						At mill					
	Fatal	Nonfatal				All injuriea	Fatal	Nonfatal				All injuries
		Permanent		Tempo- rary total	Total non- fatal			Permanent		Tempo- rary total	Total non- fatal	
		Total	Partial					Total	Partial			
Alabama-----	-	-	-	22	22	22	-	1	-	28	29	29
Alaska-----	-	-	-	13	13	13	-	-	-	4	4	4
Arizona-----	-	-	-	7	7	7	-	-	-	19	19	19
Arkansas-----	-	-	-	31	31	31	1	-	3	44	47	48
California-----	6	-	2	73	75	81	1	-	1	94	95	96
Colorado-----	-	-	-	13	13	13	-	-	1	14	15	15
Connecticut-----	-	-	-	24	24	24	-	-	-	28	28	28
Florida-----	5	-	1	84	85	90	1	-	3	75	78	79
Georgia-----	2	-	2	70	72	74	-	-	1	75	76	76
Hawaii-----	-	-	-	40	40	40	-	-	-	20	20	20
Idaho-----	-	-	-	6	6	6	-	-	-	8	8	8
Illinois-----	2	-	4	82	86	88	2	-	5	112	117	119
Indiana-----	1	-	1	56	57	58	-	-	-	66	66	66
Iowa-----	1	1	1	68	70	71	3	-	2	38	40	43
Kansas-----	-	-	-	14	14	14	-	-	1	18	19	19
Kentucky-----	1	-	1	94	95	96	-	-	-	100	100	100
Louisiana-----	-	-	2	35	37	37	-	-	-	19	19	19
Maine-----	1	-	1	8	9	10	1	-	-	15	15	16
Maryland-----	-	-	-	26	26	26	-	-	1	14	15	15
Massachusetts-----	-	-	-	16	16	16	-	-	1	28	29	29
Michigan-----	-	-	1	23	24	24	1	-	-	58	58	59
Minnesota-----	-	-	-	21	21	21	-	-	-	78	78	78
Missouri-----	2	-	2	81	83	85	2	-	3	133	136	138
Montana-----	-	-	-	10	10	10	-	-	-	3	3	3
Nebraska-----	-	-	-	6	6	6	-	-	2	26	28	28
Nevada-----	-	-	-	5	5	5	-	-	-	11	11	11
New Hampshire-----	-	-	-	8	8	8	-	-	-	7	7	7
New Jersey-----	-	-	-	34	34	34	-	-	1	43	44	44
New Mexico-----	-	-	1	4	5	5	-	-	-	7	7	7
New York-----	-	-	2	45	47	47	-	-	1	58	59	59
North Carolina-----	3	-	-	23	23	26	-	-	5	27	32	32
Ohio-----	2	-	2	78	80	82	1	-	3	98	101	102
Oklahoma-----	-	-	1	35	36	36	1	-	2	52	54	55
Oregon-----	-	-	-	29	29	29	-	-	1	54	55	55
Pennsylvania-----	2	-	7	120	127	129	-	-	4	149	153	153
Rhode Island-----	-	-	-	3	3	3	-	-	-	1	1	1
South Carolina-----	1	-	1	8	9	10	1	-	1	14	15	16
South Dakota-----	-	-	-	19	19	19	-	-	3	10	13	13
Tennessee-----	2	-	1	42	43	45	1	-	2	78	80	81
Texas-----	-	-	1	117	118	118	2	-	7	108	115	117
Utah-----	-	-	-	4	4	4	-	-	-	7	7	7
Vermont-----	1	-	1	42	43	44	-	-	1	16	17	17
Virginia-----	1	-	1	91	92	93	2	-	6	115	121	123
Washington-----	3	-	-	17	17	20	-	-	-	10	10	10
West Virginia-----	1	-	1	29	30	31	1	-	-	28	28	29
Wisconsin-----	-	-	-	62	62	62	-	-	1	32	33	33
Wyoming-----	-	-	-	8	8	8	-	-	1	3	4	4
Total-----	37	1	37	1,746	1,784	1,821	21	1	63	2,045	2,109	2,130

^{1/} No injuries were reported at stone quarries and mills for States not listed.

TABLE B-8. - Fatal injuries by general work location and main cause at stone quarries and mills in the United States, by State ^{1/}, 1971

State	Underground mines						Open quarries								Total, mining activities ^{2/}	Mills									Grand total
	Underground			Surface			Falls of face or side	Slips or falls of persons	Handling material	Haulage	Explosives	Electricity	Machinery	Total, open quarries		Siding or falling material or objects	Slips or falls of persons	Handling material	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Total, mills	
	Falls of roof or back	Sliding or falling material or objects	Explosives	Total, underground	Machinery	Total, surface																			
Arkansas-----	1	4	1	6	1	7	1	4	1	5	3	1	15	30	37	4	3	2	4	1	1	1	5	21	58
California-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	1
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	1
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
North Carolina--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Ohio-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Pennsylvania-----	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1
South Carolina--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
West Virginia---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total-----	1	4	1	6	1	7	1	4	1	5	3	1	15	30	37	4	3	2	4	1	1	1	5	21	58

^{1/} No fatal injuries were reported at stone quarries and mills for States not listed.^{2/} No fatal injuries were reported at other surface mining at stone quarries and mills.

TABLE B-9. - Nonfatal injuries by general work location and main cause at stone quarries and mills in the United States, by State 1/, 1971

State	Underground mines																											
	Underground												Surface															
	Falls of roof or back	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Machinery	Fires or suffocation from flames	Miscellaneous causes	Pneumoconiosis	Total, underground	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosives	Electricity	Machinery	Miscellaneous causes	Total, surface		
Alabama-----	-	-	-	-	2	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
California-----	-	-	1	1	1	1	-	-	1	4	-	-	11	11	-	-	-	1	-	-	-	-	-	1	-	-	3	
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Georgia-----	-	-	-	2	2	2	-	-	-	-	-	-	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Idaho-----	-	-	-	-	-	-	-	-	3	1	-	-	-	6	-	-	2	-	-	-	-	-	-	-	-	-	-	
Illinois-----	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	
Iowa-----	-	-	-	-	-	-	-	-	-	-	2	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	
Kansas-----	-	-	2	2	7	1	-	-	2	-	1	1	2	17	-	-	6	1	-	-	11	2	-	-	-	-	6	
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Louisiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Missouri-----	1	-	1	7	6	-	-	-	3	4	-	1	23	-	-	-	2	-	-	-	-	-	-	-	-	-	5	
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nebraska-----	-	-	1	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ohio-----	-	-	-	2	1	-	-	-	3	2	-	1	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pennsylvania-----	3	5	2	5	2	-	-	-	-	4	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
South Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Texas-----	-	-	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	2
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vermont-----	-	-	-	2	4	1	-	-	-	-	-	-	1	9	-	-	1	-	-	-	-	-	-	-	-	-	-	9
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Washington-----	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
West Virginia-----	-	-	-	2	1	-	-	-	1	1	-	-	-	6	-	-	-	-	-	-	4	-	-	1	1	-	-	6
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total-----	4	8	6	25	37	6	1	2	13	20	3	4	1	130	1	4	14	2	1	1	26	2	1	1	4	5	61	191

1/ No nonfatal injuries were reported at stone quarries and mills for States not listed.

TABLE B-9. - Nonfatal injuries by general work location and main cause at stone quarries and mills in the United States, by State 1/1, 1971 - Continued

State	Open quarries										Other surface mining										Total, mining activities						
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Sleeping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires.	Miscellaneous causes	Pneumoconiosis	Total, open quarries	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools		Sleeping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Machinery	Miscellaneous causes	Total, other surface mining
Alabama-----	1	1	1	47	15	273	1	15	5	217	6	88	1	1,513	3	8	24	6	2	4	19	5	9	80	1,784		
Alaska-----	6	31	285	411	112	47	15	273	1	15	5	217	6	88	1	1,513	3	8	24	6	2	4	19	5	9	80	1,784
Arizona-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Arkansas-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
California-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Colorado-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Connecticut-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Florida-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Georgia-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hawaii-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Idaho-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Illinois-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Indiana-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Iowa-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Kansas-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Kentucky-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Louisiana-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maine-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maryland-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Massachusetts-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Michigan-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Minnesota-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Missouri-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Montana-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nebraska-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nevada-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
New Hampshire-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
New Jersey-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
New Mexico-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
New York-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
North Carolina-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ohio-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Oklahoma-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Oregon-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pennsylvania-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rhode Island-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
South Carolina-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
South Dakota-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tennessee-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Texas-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Utah-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vermont-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Washington-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
West Virginia-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wisconsin-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wyoming-----	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

1/ No nonfatal injuries were reported at stone quarries and mills for States not listed.

TABLE B-9. - Nonfatal injuries by general work location and main cause at stone quarries and mills in the United States, by State 1/1, 1971 - Continued

State	Mills														Grand total	
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis		Total, mills
Alabama-----	-	7	10	2	-	-	4	1	-	1	2	-	2	-	29	51
Alaska-----	-	-	-	2	-	-	-	-	-	-	1	-	1	-	4	17
Arizona-----	-	3	5	2	-	-	1	-	-	1	2	-	5	-	19	26
Arkansas-----	-	11	18	4	-	-	6	-	-	1	5	-	5	-	47	78
California-----	2	14	35	8	3	-	6	-	-	2	13	1	11	-	95	170
Colorado-----	1	1	11	-	-	-	3	1	-	-	2	-	-	-	15	28
Connecticut-----	1	5	11	-	1	1	3	-	-	-	4	-	2	-	28	52
Florida-----	2	17	24	7	1	1	5	-	-	-	16	-	8	-	78	163
Georgia-----	2	11	26	6	1	1	7	-	-	1	10	1	11	-	76	148
Hawaii-----	-	4	6	1	3	1	1	-	-	2	2	-	2	-	20	60
Idaho-----	1	4	1	-	-	-	2	-	-	-	-	-	-	-	14	14
Illinois-----	1	28	32	10	3	2	15	-	-	-	23	-	3	-	117	203
Indiana-----	4	10	27	5	2	-	4	1	-	1	6	-	7	-	66	123
Iowa-----	3	9	10	1	-	-	4	-	-	-	9	-	4	-	40	110
Kansas-----	-	4	5	-	-	-	4	-	-	-	5	-	1	-	19	33
Kentucky-----	6	15	36	3	1	1	10	-	1	-	14	-	13	-	100	195
Louisiana-----	-	2	6	1	-	-	2	-	-	-	5	-	3	-	19	56
Maine-----	-	-	7	2	-	-	-	-	-	-	1	-	-	-	15	24
Maryland-----	-	3	6	1	-	-	-	-	-	-	8	-	3	-	15	41
Massachusetts-----	1	6	11	-	-	1	-	-	-	-	10	-	2	-	29	45
Michigan-----	3	9	21	1	3	1	5	-	-	1	11	1	4	-	58	82
Minnesota-----	2	20	27	2	2	-	11	-	-	-	19	-	2	-	78	99
Missouri-----	3	25	53	5	3	3	13	-	-	-	12	-	12	-	136	219
Montana-----	-	-	2	1	-	-	5	-	-	-	-	-	-	-	3	13
Nebraska-----	1	9	8	1	-	-	2	-	-	-	3	-	1	-	28	34
Nevada-----	-	3	3	-	-	-	-	-	-	-	-	-	3	-	11	16
New Hampshire-----	3	7	11	2	1	4	2	-	-	-	5	1	7	-	44	78
New Jersey-----	-	1	1	1	-	1	-	-	-	-	2	-	1	-	12	12
New Mexico-----	3	14	22	2	2	3	2	-	-	-	9	-	2	-	59	106
New York-----	2	19	30	10	1	3	9	-	1	1	9	1	-	-	32	55
Ohio-----	4	19	30	10	1	3	9	-	-	3	7	1	14	-	101	181
Oklahoma-----	1	9	20	2	1	1	3	-	-	1	7	1	10	1	54	90
Oregon-----	3	10	14	2	2	3	3	-	1	1	6	-	10	-	55	84
Pennsylvania-----	9	35	43	14	5	1	11	-	-	3	21	-	11	-	153	280
Rhode Island-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	4
South Carolina-----	-	6	1	1	-	1	3	-	-	1	2	-	1	-	15	24
South Dakota-----	-	10	34	10	-	3	4	-	-	1	7	-	11	-	80	123
Tennessee-----	5	13	40	11	-	4	14	-	-	1	13	1	13	-	115	233
Texas-----	-	2	2	-	-	-	-	-	-	-	-	-	-	-	7	11
Utah-----	-	2	5	3	1	1	3	-	-	-	-	-	2	-	17	60
Vermont-----	-	15	36	11	3	2	13	-	-	3	14	-	22	-	121	213
Virginia-----	2	1	2	2	-	-	3	-	-	-	2	-	1	-	10	27
Washington-----	1	8	7	5	-	-	3	-	-	-	3	-	1	-	28	58
West Virginia-----	1	1	2	2	-	-	5	-	-	-	6	-	6	-	33	95
Wisconsin-----	-	5	9	1	-	-	-	-	-	-	1	-	-	-	4	12
Wyoming-----	-	-	1	-	1	-	-	-	-	1	1	-	-	-	-	-
Total-----	66	383	700	143	38	42	189	2	3	23	290	8	220	2	2,109	3,893

1/ No nonfatal injuries were reported at stone quarries and mills for States not listed.

TABLE B-10. - Injuries by general work location and main cause at stone quarries and mills in the United States, by degree of injury and kind of stone, 1971

Degree of injury and kind of stone	Underground mines																											
	Underground														Surface													
	Falls of roof or back	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosives	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis	Total, underground	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosives	Electricity	Machinery	Miscellaneous causes	Total, surface at underground	Total, underground mines
Fatal and nonfatal:																												
Cement 1/ -----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	2	4	8	11	22	3	1	-	10	1	8	3	2	-	75	1	3	12	2	-	-	21	2	1	4	5	52	127
Limestone (chief product, lime)-	2	2	2	6	5	-	-	-	3	-	8	-	1	-	29	-	1	2	-	-	4	-	-	-	-	7	36	
Marble-----	-	-	-	5	9	3	-	1	-	-	2	-	1	1	22	-	-	-	-	-	1	-	-	-	-	1	23	
Sandstone-----	1	2	-	3	-	-	-	-	-	-	1	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	7	
Slate-----	-	-	-	-	1	-	-	1	-	-	1	-	-	-	2	-	-	-	-	1	-	-	-	-	-	1	3	
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total-----	5	8	10	25	37	6	1	2	13	1	20	3	4	1	136	1	4	14	2	1	1	26	2	1	5	5	62	198
Fatal:																												
Cement 1/ -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	-	-	4	-	-	-	-	-	-	-	1	-	-	-	5	-	-	-	-	-	-	-	-	-	1	-	1	6
Limestone (chief product, lime)-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total-----	1	-	4	-	-	-	-	-	-	1	-	-	-	-	6	-	-	-	-	-	-	-	-	-	1	-	1	7
Permanent total:																												
Cement 1/ -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Permanent partial:																												
Cement 1/ -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temporary total:																												
Cement 1/ -----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	2
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	2	4	4	11	22	3	1	-	10	-	8	3	2	-	70	1	3	12	2	-	-	20	2	1	3	5	50	120
Limestone (chief product, lime)-	1	2	2	6	5	-	-	-	3	-	8	-	1	-	28	-	1	2	-	-	4	-	-	-	-	-	7	35
Marble-----	-	-	-	5	9	3	-	1	-	-	2	-	1	1	22	-	-	-	-	-	-	-	-	-	-	-	1	23
Sandstone-----	1	2	-	3	-	-	-	-	-	-	1	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	7
Slate-----	-	-	-	-	1	-	-	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	1	3	
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total-----	4	8	6	25	37	6	1	2	13	-	20	3	4	1	130	1	4	14	2	1	1	25	2	1	4	5	60	190

1/ Includes limestone or other stones used in manufacturing cement.

TABLE B-10. - Injuries by general work location and main cause at stone quarries and mills in the United States, by degree of injury and kind of stone, 1971 - Continued

Degree of injury and kind of stone	Open quarries															Other surface mining										Total, mining activities	
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis	Total, open quarries	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Machinery	Miscellaneous causes		Total, other surface mining
Fatal and nonfatal:																											
Cement 1/-----	-	1	16	12	1	1	-	14	-	2	-	9	-	2	-	58	-	-	-	-	-	-	-	-	-	-	60
Granite-----	-	4	36	54	25	9	4	31	-	1	1	24	1	18	-	208	-	-	-	-	-	-	-	-	-	-	208
Limestone-----	5	18	157	212	51	26	5	159	1	14	3	128	4	46	-	829	3	8	24	6	2	4	19	5	9	80	1,036
Limestone (chief product, lime)-	1	1	11	17	4	3	1	12	-	-	1	4	-	5	-	60	-	-	-	-	-	-	-	-	-	-	96
Marble-----	-	1	7	7	1	-	1	3	-	-	-	4	-	1	-	25	-	-	-	-	-	-	-	-	-	-	48
Sandstone-----	1	2	20	34	8	-	1	9	-	-	1	20	-	4	-	100	-	-	-	-	-	-	-	-	-	-	107
Slate-----	-	-	7	16	7	2	-	3	-	-	-	4	-	-	-	39	-	-	-	-	-	-	-	-	-	-	42
Traprock-----	-	3	27	42	15	3	3	38	-	1	-	31	1	8	1	173	-	-	-	-	-	-	-	-	-	-	173
Miscellaneous stone-----	-	1	8	18	-	3	-	9	-	-	-	8	-	4	-	51	-	-	-	-	-	-	-	-	-	-	51
Total-----	7	31	289	412	112	47	15	278	1	18	6	232	6	88	1	1,543	3	8	24	6	2	4	19	5	9	80	1,821
Fatal:																											
Cement 1/-----	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
Granite-----	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4
Limestone-----	1	-	3	1	-	-	-	1	2	1	9	1	-	-	-	18	-	-	-	-	-	-	-	-	-	-	24
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2
Marble-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock-----	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Miscellaneous stone-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Total-----	1	-	4	1	-	-	-	5	-	3	1	15	-	-	-	30	-	-	-	-	-	-	-	-	-	-	37
Permanent total:																											
Cement 1/-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Permanent partial:																											
Cement 1/-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
Limestone-----	1	-	2	5	1	-	-	2	1	11	-	-	-	-	-	23	-	-	-	-	-	1	-	1	-	2	26
Limestone (chief product, lime)-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
Slate-----	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Total-----	1	-	3	10	1	-	-	4	-	1	-	14	-	-	-	34	-	-	-	-	-	1	-	1	-	2	37
Temporary total:																											
Cement 1/-----	-	1	16	12	1	1	-	14	-	1	-	7	-	2	-	55	-	-	-	-	-	-	-	-	-	-	57
Granite-----	-	4	36	52	25	9	4	29	-	1	1	21	1	18	-	201	-	-	-	-	-	-	-	-	-	-	201
Limestone-----	3	18	152	206	50	26	5	155	1	11	2	108	4	46	-	787	3	8	24	6	2	3	19	4	9	78	985
Limestone (chief product, lime)-	1	1	11	17	4	3	1	11	-	-	1	3	-	5	-	58	-	-	-	-	-	-	-	-	-	-	93
Marble-----	-	1	6	7	1	-	1	3	-	-	-	4	-	1	-	24	-	-	-	-	-	-	-	-	-	-	47
Sandstone-----	1	2	20	32	8	-	1	8	-	1	20	-	-	4	-	97	-	-	-	-	-	-	-	-	-	-	104
Slate-----	-	-	6	15	7	2	-	3	-	-	-	4	-	-	-	37	-	-	-	-	-	-	-	-	-	-	40
Traprock-----	-	3	27	42	15	3	3	37	-	1	-	29	1	8	1	170	-	-	-	-	-	-	-	-	-	-	170
Miscellaneous stone-----	-	1	8	18	-	3	-	8	-	-	-	7	-	4	-	49	-	-	-	-	-	-	-	-	-	-	49
Total-----	5	31	282	401	111	47	15	268	1	14	5	203	6	88	1	1,478	3	8	24	6	2	3	19	4	9	78	1,746

1/ Includes limestone or other stones used in manufacturing cement.

TABLE B-10. - Injuries by general work location and main cause at stone quarries and mills in the United States, by degree of injury and kind of stone, 1971 - Continued

Degree of injury and kind of stone	Mills															Grand total
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis	Total, mills	
Fatal and nonfatal:																
Cement 1/ -----	16	82	110	23	14	7	22	2	1	5	44	3	36	-	365	425
Granite -----	6	38	83	9	-	5	19	-	-	2	36	2	19	-	219	427
Limestone -----	33	140	270	63	11	13	92	-	3	10	137	1	67	1	841	1,877
Limestone (chief product, lime) -----	2	56	68	16	2	8	27	1	-	2	20	1	59	1	263	359
Marble -----	1	6	42	5	4	2	5	-	-	-	8	-	8	-	81	129
Sandstone -----	5	33	51	11	1	1	11	-	-	2	21	-	5	-	141	248
Slate -----	-	3	14	3	-	-	-	-	-	-	-	-	1	-	21	63
Traprock -----	5	21	39	7	6	4	8	-	-	2	19	1	16	-	128	301
Miscellaneous stone -----	2	7	25	6	-	2	9	-	-	1	10	-	9	-	71	122
Total -----	70	386	702	143	38	42	193	3	4	24	295	8	220	2	2,130	3,951
Fatal:																
Cement 1/ -----	1	-	1	-	-	-	1	-	-	-	-	-	-	-	3	6
Granite -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Limestone -----	2	1	1	-	-	-	2	-	1	1	4	-	-	-	12	36
Limestone (chief product, lime) -----	-	2	-	-	-	-	1	1	-	-	-	-	-	-	4	6
Marble -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Sandstone -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Miscellaneous stone -----	1	-	-	-	-	-	-	-	-	-	1	-	-	-	2	3
Total -----	4	3	2	-	-	-	4	1	1	1	5	-	-	-	21	58
Permanent total:																
Cement 1/ -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone -----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Limestone (chief product, lime) -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marble -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slate -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traprock -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total -----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Permanent partial:																
Cement 1/ -----	-	1	2	3	-	-	-	-	-	-	8	-	1	-	15	15
Granite -----	-	-	2	1	-	-	2	-	-	-	6	-	-	-	11	14
Limestone -----	1	-	4	3	-	-	1	-	-	-	18	-	-	-	27	53
Limestone (chief product, lime) -----	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	3
Marble -----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1
Sandstone -----	-	1	-	-	-	-	-	-	-	-	1	-	-	-	2	5
Slate -----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	3	5
Traprock -----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2
Miscellaneous stone -----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2
Total -----	1	3	11	8	-	-	3	-	-	1	35	-	1	-	63	100
Temporary total:																
Cement 1/ -----	15	81	107	20	14	7	21	2	1	5	36	3	35	-	347	404
Granite -----	6	38	81	8	-	5	17	-	-	2	30	2	19	-	208	409
Limestone -----	30	138	265	60	11	13	89	-	2	9	115	1	67	1	801	1,786
Limestone (chief product, lime) -----	2	54	68	16	2	8	26	-	-	1	19	1	59	1	257	350
Marble -----	1	6	42	4	4	2	5	-	-	-	8	-	8	-	80	127
Sandstone -----	5	32	51	11	1	1	11	-	-	2	20	-	5	-	139	243
Slate -----	-	2	12	3	-	-	-	-	-	-	-	-	1	-	18	58
Traprock -----	5	21	38	7	6	4	8	-	-	2	19	1	16	-	127	297
Miscellaneous stone -----	1	7	25	6	-	2	9	-	-	1	8	-	9	-	68	117
Total -----	65	379	689	135	38	42	186	2	3	22	255	8	219	2	2,045	3,791

1/ Includes limestone or other stones used in manufacturing cement.

TABLE B-11. - Injuries by general work location and main cause at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, degree of injury, and kind of stone ^{1/}, 1971 - Continued

Degree of injury and kind of stone	Open quarries															Other surface mining										Total, mining activities	
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumocniosis	Total, open quarries	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Machinery	Miscellaneous causes		Total, other surface mining
Dimension stone:																											
Fatal:																											
Marble-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Total-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Permanent partial:																											
Granite-----	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Limestone-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandstone-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Slate-----	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Total-----	-	-	2	3	-	-	-	-	-	-	-	1	-	-	-	6	-	-	-	-	-	-	-	-	-	-	6
Temporary total:																											
Granite-----	-	1	15	24	10	3	4	2	-	-	-	8	1	8	-	76	-	-	-	-	-	-	-	-	-	-	76
Limestone-----	-	-	9	7	4	-	-	3	-	-	-	5	1	2	-	31	-	-	-	-	-	-	-	-	-	-	33
Marble-----	-	-	-	1	1	-	-	-	-	-	-	2	-	-	-	4	-	-	-	-	-	-	-	-	-	-	17
Sandstone-----	-	-	5	9	3	1	2	-	-	-	-	4	-	-	-	24	-	-	-	-	-	-	-	-	-	-	24
Slate-----	-	-	5	7	5	1	-	-	-	-	-	2	-	-	-	20	-	-	-	-	-	-	-	-	-	-	23
Miscellaneous stone-----	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
Total-----	-	1	34	50	23	4	5	8	-	-	-	21	2	10	-	158	-	-	-	-	-	-	-	-	-	-	176
Crushed and broken stone 2/:																											
Fatal:																											
Cement 3/-----	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
Granite-----	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4
Limestone-----	1	-	3	1	-	-	-	1	-	2	1	9	-	-	-	18	-	-	-	-	-	-	-	-	-	-	24
Limestone (chief product, lime)-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2
Traprock-----	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Miscellaneous stone-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Total-----	1	-	3	1	-	-	-	5	-	3	1	15	-	-	-	29	-	-	-	-	-	-	-	-	-	-	36
Permanent total:																											
Limestone-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Total-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Permanent partial:																											
Cement 3/-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Limestone-----	1	-	1	5	1	-	-	2	-	1	11	-	-	-	-	22	-	-	-	-	-	1	-	1	-	2	25
Limestone (chief product, lime)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Sandstone-----	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Total-----	1	-	1	7	1	-	-	4	-	1	-	13	-	-	-	28	-	-	-	-	-	1	-	1	-	2	31
Temporary total:																											
Cement 3/-----	-	1	16	12	1	1	-	14	-	1	-	7	-	2	-	55	-	-	-	-	-	-	-	-	-	-	57
Granite-----	-	3	21	28	15	6	-	27	-	1	1	13	-	10	-	125	-	-	-	-	-	-	-	-	-	-	125
Limestone-----	3	18	143	199	46	26	5	152	1	11	2	103	3	44	-	756	3	8	24	6	2	3	19	4	9	78	952
Limestone (chief product, lime)-----	1	1	11	17	4	3	1	11	-	-	1	3	-	5	-	58	-	-	-	-	-	-	-	-	-	-	93
Marble-----	-	1	6	6	-	-	1	3	-	-	-	2	-	1	-	20	-	-	-	-	-	-	-	-	-	-	30
Sandstone-----	1	2	15	23	5	-	-	6	-	-	1	16	-	4	-	73	-	-	-	-	-	-	-	-	-	-	80
Slate-----	-	-	1	8	2	1	-	3	-	-	-	2	-	-	-	17	-	-	-	-	-	-	-	-	-	-	17
Traprock-----	-	3	27	42	15	3	3	37	-	1	-	29	1	8	1	170	-	-	-	-	-	-	-	-	-	-	170
Miscellaneous stone-----	-	1	8	16	-	3	-	7	-	-	-	7	-	4	-	46	-	-	-	-	-	-	-	-	-	-	46
Total-----	5	30	248	351	88	43	10	260	1	14	5	182	4	78	1	1,320	3	8	24	6	2	3	19	4	9	78	1,570
Grand total:																											
Fatal-----	1	-	4	1	-	-	-	5	-	3	1	15	-	-	-	30	-	-	-	-	-	-	-	-	-	-	37
Permanent total-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Permanent partial-----	1	-	3	10	1	-	-	4	-	1	-	14	-	-	-	34	-	-	-	-	-	1	-	1	-	2	37
Temporary total-----	5	31	282	401	111	47	15	268	1	14	5	203	6	88	1	1,478	3	8	24	6	2	3	19	4	9	78	1,746
Total nonfatal-----	6	31	285	411	112	47	15	273	1	15	5	217	6	88	1	1,513	3	8	24	6	2	4	19	5	9	80	1,784

^{1/} No injuries occurred in stones not listed.

^{2/} Same as nondimension stone.

^{3/} Includes limestone or other stones used in manufacturing cement.

TABLE B-11. - Injuries by general work location and main cause at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, degree of injury, and kind of stone ^{1/}, 1971 - Continued

Degree of injury and kind of stone	Mills															Grand total
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Pneumoconiosis	Total, mills	
Dimension stone:																
Fatal:																
Marble-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Permanent partial:																
Granite-----	-	-	1	1	-	-	1	-	-	-	3	-	-	-	6	8
Limestone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Marble-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1
Sandstone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Slate-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	3	5
Total-----	-	1	3	2	-	-	1	-	-	-	3	-	-	-	10	16
Temporary total:																
Granite-----	-	9	28	4	-	2	4	-	-	-	11	1	5	-	64	140
Limestone-----	1	4	15	1	-	-	1	-	-	-	3	-	-	-	25	58
Marble-----	-	2	22	1	2	1	-	-	-	-	1	-	-	-	29	46
Sandstone-----	1	-	10	2	-	-	-	-	-	-	2	-	2	-	17	41
Slate-----	-	-	9	2	-	-	-	-	-	-	-	-	-	-	11	34
Miscellaneous stone-----	-	-	1	-	-	-	-	-	-	-	-	-	1	-	2	5
Total-----	2	15	85	10	2	3	5	-	-	-	17	1	8	-	148	324
Crushed and broken stone 2/:																
Fatal:																
Cement 3/-----	1	-	1	-	-	-	1	-	-	-	-	-	-	-	3	6
Granite-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Limestone-----	2	1	1	-	-	-	2	-	1	1	4	-	-	-	12	36
Limestone (chief product, lime)-	-	2	-	-	-	-	1	1	-	-	-	-	-	-	4	6
Traprock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Miscellaneous stone-----	1	-	-	-	-	-	-	-	-	-	1	-	-	-	2	3
Total-----	4	3	2	-	-	-	4	1	1	1	5	-	-	-	21	57
Permanent total:																
Limestone-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Total-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Permanent partial:																
Cement 3/-----	-	1	2	3	-	-	-	-	-	-	8	-	1	-	15	15
Granite-----	-	-	1	-	-	-	1	-	-	-	3	-	-	-	5	6
Limestone-----	1	-	4	3	-	-	1	-	-	-	18	-	-	-	27	52
Limestone (chief product, lime)-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	3
Sandstone-----	-	1	-	-	-	-	-	-	-	-	1	-	-	-	2	4
Traprock-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2
Total-----	1	2	8	6	-	-	2	-	-	1	32	-	1	-	53	84
Temporary total:																
Cement 3/-----	15	81	107	20	14	7	21	2	1	5	36	3	35	-	347	404
Granite-----	6	29	53	4	-	3	13	-	-	2	19	1	14	-	144	269
Limestone-----	29	134	250	59	11	13	88	-	2	9	112	1	67	1	776	1,728
Limestone (chief product, lime)-	2	54	68	16	2	8	26	-	-	1	19	1	59	1	257	350
Marble-----	1	4	20	3	2	1	5	-	-	-	7	-	8	-	51	81
Sandstone-----	4	32	41	9	1	1	11	-	-	2	18	-	3	-	122	202
Slate-----	-	2	3	1	-	-	-	-	-	-	-	-	1	-	7	24
Traprock-----	5	21	38	7	6	4	8	-	-	2	19	1	16	-	127	297
Miscellaneous stone-----	1	7	24	6	-	2	9	-	-	1	8	-	8	-	66	112
Total-----	63	364	604	125	36	39	181	2	3	22	238	7	211	2	1,897	3,467
Grand total:																
Fatal-----	4	3	2	-	-	-	4	1	1	1	5	-	-	-	21	58
Permanent total-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Permanent partial-----	1	3	11	8	-	-	3	-	-	1	35	-	1	-	63	100
Temporary total-----	65	379	689	135	38	42	186	2	3	22	255	8	219	2	2,045	3,791
Total nonfatal-----	66	383	700	143	38	42	189	2	3	23	290	8	220	2	2,109	3,893

^{1/} No injuries occurred in stones not listed.

^{2/} Same as nondimension stone.

^{3/} Includes limestone or other stones used in manufacturing cement.

TABLE B-12. - Injury experience and worktime data at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and kind of stone, 1971

Kind of stone	Injuries						Frequency rates per million man-hours						Severity rates per million man-hours					
	Fatal			Nonfatal			Fatal			Nonfatal			Fatal			Nonfatal		
	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total
Dimension stone:																		
Cement 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite	-	-	-	78	70	148	-	-	-	38.29	27.14	32.06	-	-	-	744	701	720
Limestone	-	-	-	34	25	59	-	-	-	44.59	30.09	37.03	-	-	-	1,803	755	1,256
Limestone (chief product, lime)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marble	1	-	1	17	30	47	2.73	-	0.70	46.45	28.34	32.99	16,394	-	4,211	997	429	575
Sandstone	-	-	-	25	17	42	-	-	-	61.65	23.45	37.16	-	-	-	1,931	124	772
Slate	-	-	-	25	14	39	-	-	-	56.47	21.60	35.75	-	-	-	6,903	1,338	3,596
Traprock	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous stone	-	-	-	3	2	5	-	-	-	78.40	94.34	123.81	-	-	-	993	7,075	1,312
Total or average	1	-	1	182	158	340	.25	-	.10	44.77	26.82	34.15	1,476	-	603	1,755	655	1,104
Crushed and broken stone 2/:																		
Cement 1/	3	3	6	57	362	419	.50	.06	.11	9.59	7.49	7.72	3,028	372	663	475	431	436
Granite	4	-	4	126	149	275	.58	-	.32	18.39	26.63	22.09	3,502	-	1,928	505	1,152	796
Limestone	24	12	36	978	804	1,782	.61	.42	.53	25.01	28.40	26.43	3,683	2,543	3,204	1,153	1,701	1,383
Limestone (chief product, lime)	2	4	6	30	259	333	.51	.31	.36	33.93	20.09	21.03	3,078	1,862	2,144	824	562	623
Marble	-	-	-	30	51	81	-	-	-	24.11	20.82	29.08	-	-	-	591	702	667
Sandstone	-	-	-	82	124	206	-	-	-	24.01	30.13	27.35	-	-	-	789	856	826
Slate	-	-	-	17	7	24	-	-	-	51.86	9.87	23.14	-	-	-	1,092	278	535
Traprock	2	-	2	171	128	299	.35	-	.22	29.67	39.22	33.12	2,082	-	1,329	575	822	665
Miscellaneous stone	1	2	3	47	67	114	.54	1.34	.89	25.25	44.79	33.96	3,223	8,022	5,362	687	1,177	905
Total or average	36	21	57	1,602	1,951	3,553	.53	.20	.33	23.54	18.30	20.34	3,174	1,182	1,938	922	865	887
Grand total or average	37	21	58	1,784	2,109	3,893	.51	.19	.31	24.74	18.75	21.09	3,079	1,120	1,885	969	854	899

1/ Includes limestone or other stones used in manufacturing cement.

2/ Same as nondimension stone.

TABLE B-12. - Injury experience and worktime data at stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and kind of stone, 1971 - Continued

Kind of stone	Active operations			Average men working daily			Average days active			Man-days worked			Man-hours worked		
	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total	Quarries	Mills	Total
Dimension stone:															
Cement 1/	80	42	122	1,059	1,257	2,316	237	246	242	250,833	309,353	560,186	2,037,132	2,578,764	4,615,896
Granite	52	31	83	436	426	862	216	239	227	94,280	101,622	195,902	762,476	830,900	1,593,376
Limestone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limestone (chief product, lime)	13	10	23	196	533	729	235	249	245	46,012	132,687	178,699	365,992	1,058,706	1,424,698
Marble	86	32	118	273	398	671	187	228	211	50,915	90,704	141,619	405,515	724,862	1,130,397
Sandstone	23	20	43	226	313	539	245	245	245	55,339	76,780	132,119	442,731	648,198	1,090,929
Slate	3	2	5	8	26	34	200	230	223	1,603	5,962	7,565	12,829	47,894	60,463
Traprock	18	3	21	28	4	32	171	66	158	4,797	265	5,062	38,264	2,1120	40,384
Miscellaneous stone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total or average	275	140	415	2,226	2,957	5,183	226	243	236	503,779	717,393	1,221,172	4,064,939	5,891,424	9,956,363
Crushed and broken stone 2/:															
Cement 1/	197	194	391	2,858	18,014	20,872	260	334	324	742,611	6,020,800	6,763,411	5,943,661	48,326,098	54,269,759
Granite	394	234	628	3,195	2,512	5,707	242	253	247	772,796	634,763	1,407,559	6,852,331	5,596,236	12,448,567
Limestone	2,668	1,971	4,639	18,980	12,982	31,962	237	251	243	4,492,377	3,260,588	7,752,965	39,098,554	28,314,192	67,412,746
Limestone (chief product, lime)	103	151	254	1,788	4,989	6,777	269	321	308	481,531	1,603,570	2,085,101	3,899,021	12,890,317	16,789,338
Marble	88	38	126	457	913	1,370	241	259	253	110,126	236,704	346,830	884,228	1,901,313	2,785,541
Sandstone	452	260	712	1,824	1,927	3,751	227	262	245	413,449	504,997	918,446	3,415,408	4,115,398	7,530,806
Slate	41	28	69	168	339	507	234	265	254	39,230	89,698	128,928	327,830	709,421	1,037,251
Traprock	667	411	1,078	3,198	1,669	4,867	217	236	224	694,468	394,119	1,088,587	5,763,907	3,263,730	9,027,637
Miscellaneous stone	294	131	425	1,070	740	1,810	213	250	228	228,007	184,925	412,932	1,861,339	1,495,819	3,357,158
Total or average	4,904	3,418	8,322	33,538	44,085	77,623	238	293	269	7,974,595	12,930,164	20,904,759	68,046,279	106,612,524	174,658,803
Grand total or average	5,179	3,558	8,737	35,764	47,042	82,806	237	290	267	8,478,374	13,647,557	22,125,931	72,111,218	112,503,948	184,615,166

1/ Includes limestone or other stones used in manufacturing cement.

2/ Same as nondimension stone.

TABLE B-14. - Injury experience and worktime data on stone quarries and mills in the United States, by dimension stone, crushed and broken stone, and employment size group, 1971

Stone and size group	Injuries			Frequency rates per million man-hours			Severity rates per million man-hours			Active operations	Average men working daily	Average days active	Man-days worked	Man-hours worked
	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total					
Dimension stone:														
1-4-----	-	22	22	-	29.57	29.57	-	380	380	205	453	204	92,546	743,928
5-9-----	1	53	54	0.96	50.97	51.93	5,770	1,597	7,368	92	600	212	127,345	1,039,796
10-19-----	-	49	49	-	36.86	36.86	-	2,595	2,595	52	688	235	161,551	1,329,439
20-34-----	-	52	52	-	37.84	37.84	-	1,299	1,299	28	737	231	170,169	1,374,249
35-49-----	-	59	59	-	43.67	43.67	-	1,750	1,750	17	674	247	166,292	1,351,071
50-99-----	-	66	66	-	31.28	31.28	-	381	381	15	1,060	245	259,959	2,110,171
100-149-----	-	11	11	-	21.05	21.05	-	272	272	2	241	246	59,186	522,488
150-249-----	-	28	28	-	18.85	18.85	-	338	338	4	730	252	184,124	1,485,221
Total or average-----	1	340	341	.10	34.15	34.25	603	1,104	1,707	415	5,183	236	1,221,172	9,956,363
Crushed and broken stone 1/:														
1-4-----	7	664	671	.36	33.85	34.21	2,141	1,627	3,768	4,659	10,373	220	2,284,586	19,616,908
5-9-----	10	727	737	.40	28.93	29.33	2,388	1,138	3,526	1,870	12,532	235	2,948,145	25,127,555
10-19-----	15	668	683	.53	23.73	24.26	3,197	867	4,063	1,035	13,315	244	3,292,074	28,154,489
20-34-----	7	542	549	.31	24.25	24.56	1,879	1,024	2,903	386	9,903	265	2,624,491	22,350,223
35-49-----	3	204	207	.32	21.81	22.13	1,925	758	2,682	97	3,982	283	1,125,234	9,352,586
50-99-----	11	397	408	.34	12.10	12.43	2,011	873	2,884	180	12,968	311	4,027,787	32,820,598
100-149-----	4	212	212	-	11.09	11.09	-	333	333	62	7,467	318	2,372,472	19,121,309
150-249-----	4	100	104	.36	9.11	9.47	2,186	344	2,530	24	4,198	322	1,352,836	10,978,054
250 or more-----	-	39	39	-	5.46	5.46	-	176	176	9	2,685	327	877,134	7,137,081
Total or average-----	57	3,553	3,610	.33	20.34	20.67	1,958	887	2,845	8,322	77,623	269	20,904,759	174,658,803
Grand total or average-----	58	3,893	3,951	.31	21.09	21.40	1,885	899	2,784	8,737	82,806	267	22,125,931	184,615,166

1/ Same as nondimension stone.

TABLE B-15. - Injuries by experience and worktime data by general work location at stone quarries and mills in the United States, by kind of stone, 1971

Kind of stone	Fatal						Nonfatal								
	Underground mines			Open quarries	Other surface mining	Total mining activities	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Grand total	
	Underground	Surface						Underground	Surface						Total
Injuries															
Frequency rates per million man-hours															
Cement 1/	-	-	-	3	-	3	6	1	1	2	55	-	57	362	419
Granite-----	-	-	-	4	-	4	4	-	-	-	204	-	204	219	423
Limestone-----	5	1	6	12	-	24	36	70	51	121	811	80	1,012	829	1,841
Limestone (chief product, lime)-----	1	-	1	-	-	-	6	28	7	35	59	-	94	259	353
Marble-----	-	-	-	2	1	3	-	22	1	23	100	-	107	141	248
Sandstone-----	-	-	-	-	-	-	-	2	1	3	39	-	42	21	63
Slate-----	-	-	-	-	-	2	2	-	-	-	171	-	171	128	299
Traprock-----	-	-	-	-	-	1	3	-	-	-	50	-	50	69	119
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	6	1	7	30	-	37	58	130	61	191	1,513	80	1,784	2,109	3,893
Frequency rates per million man-hours															
Cement 1/	-	-	-	0.54	-	0.50	0.11	2.86	19.18	4.98	9.92	-	9.59	7.49	7.77
Granite-----	-	-	-	.45	-	.45	.23	-	-	-	23.07	-	22.95	26.79	24.79
Limestone-----	2.00	1.24	1.82	.51	-	.60	.52	28.05	63.09	36.62	23.03	59.56	25.39	28.44	26.68
Limestone (chief product, lime)-----	1.14	-	.89	.36	-	.51	.36	31.93	27.70	30.98	21.31	-	24.11	20.09	21.03
Marble-----	-	-	-	1.25	-	.80	.24	60.69	11.67	51.32	29.92	-	37.59	27.36	30.40
Sandstone-----	-	-	-	-	-	-	-	51.05	29.47	38.72	27.47	-	28.00	29.13	28.63
Slate-----	-	-	-	.35	-	-	-	78.08	99.21	84.04	53.07	-	54.51	15.47	29.60
Traprock-----	-	-	-	.53	-	.53	.22	-	-	-	29.64	-	29.60	38.65	32.90
Miscellaneous stone-----	-	-	-	-	-	-	.88	-	-	-	26.39	-	26.32	46.06	35.03
Combined rate-----	1.40	.79	1.26	.46	-	.51	.31	30.31	48.24	34.39	23.20	59.35	24.74	18.75	21.09
Severity rates per million man-hours															
Cement 1/	-	-	-	3,248	-	3,028	663	1,688	341	485	-	-	475	431	436
Granite-----	-	-	-	2,714	-	2,700	1,406	-	-	562	-	-	559	1,010	775
Limestone-----	12,021	7,422	10,896	3,067	-	3,613	3,130	1,724	1,018	1,170	1,409	-	1,166	1,380	1,380
Limestone (chief product, lime)-----	6,841	-	5,311	2,167	-	3,078	2,144	400	984	758	-	-	824	562	623
Marble-----	-	-	-	7,481	-	4,799	1,425	93	882	687	-	-	710	604	636
Sandstone-----	-	-	-	-	-	-	1,167	93	885	912	-	-	910	746	819
Slate-----	-	-	-	-	-	-	586	4,365	1,653	4,565	-	-	4,431	2,104	2,404
Traprock-----	-	-	-	2,080	-	2,077	1,320	-	-	575	-	-	574	810	860
Miscellaneous stone-----	-	-	-	3,166	-	3,159	5,298	-	-	693	-	-	693	1,189	910
Combined rate-----	8,393	4,745	7,562	2,760	-	3,079	1,885	824	1,293	931	963	1,404	969	854	899

1/ Includes limestone or stones used in manufacturing cement.

TABLE B-15. - Injury experience and worktime data by general work location at stone quarries and mills in the United States, by kind of stone, 1971 - Continued

Kind of stone	Active operations		Average men working daily								Average days active								
	Quarries	Mills	Underground mines				Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills	Grand total		
			Surface		Total	Underground												Surface	Total
			Underground	Surface															
Cement 1/ Granite----- Limestone----- Limestone (chief product, lime)----- Marble----- Sandstone----- Slate----- Traprock----- Miscellaneous stone----- Total or average-----	197 476 2,720 103 101 538 64 670 312	194 276 2,002 151 48 292 48 413 134	165 17 1,229 398 42 59 13 2 --	21 5 389 104 17 1 1 --	166 22 1,618 502 217 76 18 3 --	2,692 4,232 17,380 1,286 436 2,021 376 3,203 1,094	-- -- 418 -- -- -- -- 4	2,858 4,254 19,416 1,788 653 2,097 394 3,206 1,098	18,014 3,769 13,408 4,989 1,466 2,325 1,046 1,695 744	20,872 8,023 32,824 6,777 2,099 4,422 1,046 4,901 1,842	302 267 264 278 258 279 248 277 --	257 240 234 266 230 219 240 217 212	-- -- 317 -- -- -- -- 149	260 261 236 269 239 221 260 217 212	334 250 251 321 255 256 255 236 249				
5,179	3,558	2,038	584	2,622	32,720	422	35,764	47,042	82,806	256	234	315	237	290					
	Man-day's worked				Man-hours worked														
	Underground mines			Open quarries	Other surface mining	Total mining activities	Grand total	Underground mines				Open quarries	Other surface mining	Total mining activities	Mills	Grand total			
	Underground	Surface	Total					Underground	Surface	Total									
											Underground						Surface		
Cement 1/ Granite----- Limestone----- Limestone (chief product, lime)----- Marble----- Sandstone----- Slate----- Traprock----- Miscellaneous stone----- Total-----	43,642 4,629 299,289 109,167 45,230 16,201 3,202 582	6,509 1,239 95,087 30,561 10,708 5,008 1,260 250	50,151 5,868 394,376 139,708 55,938 21,209 4,462 832	692,460 1,017,761 4,059,823 341,823 100,200 443,155 90,107 695,239	-- -- 132,458 481,531 156,138 464,364 94,569 696,071	742,611 1,023,629 4,586,657 1,603,570 369,391 1,060,065 166,478 1,096,172	6,763,411 944,116 7,948,867 2,085,101 525,529 1,060,065 261,047 1,096,172	349,658 37,021 2,495,575 877,053 362,486 137,109 25,616 4,655	52,131 9,912 808,384 252,750 85,665 43,670 10,080 2,000	401,789 46,933 3,303,959 1,129,803 448,151 180,779 35,696 6,655	5,561,872 8,842,530 35,213,827 2,769,218 802,069 3,640,144 734,865 5,770,081	-- -- 1,343,244 -- -- -- -- 4,764	5,943,661 8,889,463 39,861,030 3,899,021 1,250,220 3,820,923 770,561 5,776,736	48,326,098 17,064,463 69,006,122 12,890,317 2,960,019 4,860,280 1,357,619 3,311,584	54,269,759 17,064,463 69,006,122 16,789,338 4,210,239 8,681,203 2,128,180 9,088,320				
521,922	150,622	672,544	7,672,775	133,055	8,478,374	13,647,557	22,125,931	4,289,173	1,264,592	5,553,765	65,209,445	1,348,008	72,111,218	112,503,948	184,615,166				

1/ Includes limestone or other stones used in manufacturing cement.

TABLE B-16. - Injury experience and worktime data by general work location at cement operations in the United States, by State, 1971 - Continued

State	Fatal					Nonfatal								
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines					
	Underground	Surface	Total						Underground	Surface	Total			
Frequency rates per million man-hours														
Alabama-----	-	-	-	-	-	-	-	-	-	13.97	-	-	5.09	4.71
Arizona-----	-	-	-	-	-	-	-	-	-	25.27	-	-	12.83	12.94
Arkansas-----	-	-	-	-	-	-	-	-	-	9.38	-	-	13.93	14.66
California-----	-	-	-	-	-	1.17	-	-	-	9.64	-	-	3.27	4.01
Colorado-----	-	-	-	-	-	8.20	-	-	-	13.89	-	-	9.95	10.37
Florida-----	-	-	-	-	-	-	-	-	-	41.00	-	-	6.57	9.12
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-	4.98	4.56
Hawaii-----	-	-	-	-	-	-	-	-	-	24.84	-	-	12.16	13.12
Idaho-----	-	-	-	-	-	-	-	-	-	19.35	-	-	7.54	17.72
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-	8.67	7.54
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	2.79	2.65
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	9.58	8.65
Kansas-----	-	-	-	-	-	.56	-	-	-	5.19	-	-	3.93	4.10
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana-----	-	-	-	-	-	-	-	-	-	-	-	-	4.17	4.15
Maine-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	19.00	-	-	7.31	9.19
Michigan-----	-	-	-	-	-	-	-	-	-	8.18	-	-	11.60	11.23
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	3.67	-
Mississippi-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	16.47	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	8.03	9.58
Nebraska-----	-	-	-	-	-	-	-	-	-	-	-	-	3.10	2.69
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	5.31	4.62
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-	44.43	40.39
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	6.88	5.88
North Carolina-----	-	-	-	-	-	-	-	-	-	19.63	-	-	8.50	9.81
Ohio-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma-----	-	-	-	-	-	1.95	-	-	-	2.70	-	-	2.54	2.42
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	4.92	4.49
Pennsylvania-----	-	-	-	-	-	-	-	-	-	9.18	-	-	63.51	62.37
South Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	6.84	7.06
South Dakota-----	-	-	-	-	-	1.48	8.24	-	7.63	17.14	-	-	5.93	6.83
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-	14.86	13.90
Texas-----	-	-	-	-	-	-	-	-	-	9.76	-	-	2.91	3.64
Utah-----	-	-	-	-	-	-	-	-	-	13.95	-	-	8.15	8.52
Virginia-----	-	-	-	-	-	-	-	-	-	98.49	-	-	18.29	25.98
Washington-----	-	-	-	-	-	-	-	-	-	9.61	-	-	36.01	30.10
West Virginia-----	-	-	-	-	-	-	-	-	-	16.55	-	-	16.55	2.07
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-	7.35	6.11
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	12.00	10.82
Combined rate-----	-	-	-	.54	-	.50	2.86	19.18	4.98	9.92	-	-	9.59	7.72

TABLE B-16. - Injury experience and worktime data by general work location at cement operations in the United States, by State, 1971 - Continued

State	Active operations		Average men working daily						Average days active						
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alabama-----	10	11	-	-	-	73	-	73	774	847	-	258	-	258	316
Arizona-----	3	2	-	-	-	26	-	26	215	241	-	-	-	-	363
Arkansas-----	3	5	-	-	-	21	-	21	198	219	-	236	-	236	363
California-----	20	15	45	5	50	375	-	425	2,137	2,562	317	-	-	250	356
Colorado-----	3	3	-	-	-	33	-	33	232	265	-	273	-	273	325
Florida-----	4	4	-	-	-	55	-	55	530	585	-	277	-	277	359
Georgia-----	5	4	-	-	-	41	-	41	286	327	-	220	-	220	351
Hawaii-----	2	3	-	-	-	20	-	20	188	208	-	266	-	266	334
Idaho-----	1	1	-	-	-	4	-	4	51	55	-	298	-	298	253
Illinois-----	3	3	-	-	-	78	-	78	416	494	-	256	-	256	347
Indiana-----	4	5	-	-	-	56	-	56	726	782	-	259	-	259	348
Iowa-----	6	5	-	-	-	98	-	98	608	706	-	247	-	247	365
Kansas-----	10	7	-	-	-	95	-	95	547	642	-	259	-	259	288
Kentucky-----	1	1	-	-	-	24	-	24	184	208	-	270	-	270	365
Louisiana-----	1	2	-	-	-	1	-	1	164	168	-	305	-	305	365
Maine-----	1	1	-	-	-	20	-	20	121	161	-	266	-	266	365
Maryland-----	5	4	-	-	-	50	-	50	189	239	-	283	-	283	362
Michigan-----	10	11	-	-	-	165	-	165	1,228	1,393	-	278	-	278	304
Minnesota-----	-	1	-	-	-	-	-	-	93	93	-	-	-	-	365
Mississippi-----	3	2	-	-	-	18	-	18	92	110	-	232	-	232	229
Missouri-----	7	7	-	-	-	164	-	164	578	742	-	278	-	278	350
Montana-----	2	2	-	-	-	24	-	24	161	185	-	252	-	252	251
Nebraska-----	1	2	-	-	-	46	-	46	204	250	-	229	-	229	346
Nevada-----	2	1	-	-	-	9	-	9	62	71	-	251	-	251	363
New Mexico-----	1	1	-	-	-	10	-	10	74	84	-	253	-	253	253
New York-----	10	11	-	-	-	196	-	196	1,086	1,282	-	260	-	260	352
North Carolina-----	1	1	-	-	-	29	-	29	82	111	-	259	-	259	365
Ohio-----	12	11	46	12	58	176	-	234	896	1,130	309	263	-	275	275
Oklahoma-----	5	4	-	-	-	39	-	39	341	380	-	252	-	252	298
Oregon-----	1	3	-	-	-	4	-	4	200	204	-	260	-	260	285
Pennsylvania-----	18	20	54	4	58	263	-	321	2,009	2,330	282	253	-	259	342
South Carolina-----	2	2	-	-	-	27	-	27	228	255	-	264	-	264	365
South Dakota-----	1	1	-	-	-	12	-	12	128	140	-	194	-	194	263
Tennessee-----	6	7	-	-	-	93	-	93	641	734	-	281	-	281	335
Texas-----	17	18	-	-	-	134	-	134	1,402	1,536	-	268	-	268	362
Utah-----	2	2	-	-	-	15	-	15	110	125	-	254	-	254	359
Virginia-----	5	3	-	-	-	103	-	103	235	338	-	253	-	253	349
Washington-----	3	3	-	-	-	32	-	32	184	216	-	236	-	236	287
West Virginia-----	1	1	-	-	-	50	-	50	204	254	-	208	-	208	250
Wisconsin-----	-	3	-	-	-	-	-	-	128	128	-	-	-	-	278
Wyoming-----	5	1	-	-	-	13	-	13	82	95	-	175	-	175	254
Total or average-----	197	194	145	21	166	2,692	-	2,858	18,014	20,872	302	257	-	260	334

State	Man-days worked				Man-hours worked				Grand total
	Underground mines		Open quarries	Other surface mining	Total mining activities	Mills	Grand total		
	Underground	Surface						Underground	
Alabama-----	-	-	18,867	-	244,843	263,710	157,597	1,964,516	2,122,113
Arizona-----	-	-	8,947	-	77,963	86,910	71,580	623,705	695,285
Arkansas-----	-	-	4,946	-	4,946	76,752	39,565	574,449	614,014
California-----	14,265	15,850	90,551	106,401	759,918	866,319	725,852	6,125,535	6,978,771
Colorado-----	-	-	9,000	75,340	9,000	84,340	72,001	602,726	674,727
Florida-----	-	-	15,244	190,302	205,546	121,947	1,522,424	1,644,371	1,644,371
Georgia-----	-	-	9,025	100,494	9,025	72,535	72,535	803,994	876,529
Hawaii-----	-	-	5,321	62,812	68,133	40,263	40,263	493,474	533,737
Idaho-----	-	-	1,192	12,903	14,095	9,530	103,361	112,891	112,891
Illinois-----	-	-	19,963	144,510	164,473	156,262	1,037,976	1,193,976	1,193,976
Indiana-----	-	-	14,505	252,482	266,987	116,044	2,150,924	2,266,968	2,266,968
Iowa-----	-	-	24,243	221,865	246,108	189,822	1,774,930	1,964,752	1,964,752
Kansas-----	-	-	28,637	157,667	182,304	192,763	1,271,524	1,464,287	1,464,287
Kentucky-----	-	-	6,490	67,340	73,830	51,923	530,643	538,720	538,720
Louisiana-----	-	-	305	39,915	40,220	2,441	479,139	481,760	481,760
Maine-----	-	-	3	5	8	42,492	334,637	339,189	339,189
Maryland-----	-	-	13,150	68,738	81,888	105,268	107,423	3,353,189	3,353,189
Michigan-----	-	-	4,825	37,053	41,878	366,606	366,606	272,193	272,193
Minnesota-----	-	-	34,024	34,024	34,024	33,359	148,138	1,981,327	1,981,327
Mississippi-----	-	-	4,169	21,042	25,211	364,277	1,619,455	1,983,732	1,983,732
Missouri-----	-	-	45,534	202,432	247,966	84,320	322,976	564,904	649,194
Montana-----	-	-	6,040	40,372	46,412	84,290	18,041	180,046	198,087
Nebraska-----	-	-	10,536	70,613	81,149	20,240	20,240	3,058,263	3,058,263
Nevada-----	-	-	2,255	22,506	24,761	407,449	407,449	60,176	239,818
New Mexico-----	-	-	2,530	18,722	21,252	20,240	20,240	514,031	1,969,337
New York-----	-	-	50,929	382,281	433,210	37,499	78,669	812,648	891,317
North Carolina-----	-	-	7,522	29,977	37,499	30,655	30,655	514,031	1,969,337
Ohio-----	14,214	3,708	46,331	64,253	110,580	111,413	8,320	456,642	464,962
Oklahoma-----	-	-	9,833	101,580	111,413	8,320	8,320	5,555,977	6,231,434
Oregon-----	-	-	66,635	83,014	149,649	770,674	544,428	674,176	732,514
Pennsylvania-----	15,163	16,379	7,117	83,475	90,592	58,338	58,338	287,800	287,800
South Carolina-----	-	-	2,332	33,643	35,975	18,652	18,652	1,716,124	1,921,111
South Dakota-----	-	-	26,148	214,515	240,663	204,987	204,987	4,037,054	4,343,734
Tennessee-----	-	-	35,919	507,081	543,000	286,700	30,460	315,931	346,391
Texas-----	-	-	3,808	39,491	43,299	208,216	208,216	655,534	863,750
Utah-----	-	-	26,026	81,942	107,968	60,421	60,421	422,250	482,671
Virginia-----	-	-	7,553	52,782	60,335	83,205	83,205	407,955	491,160
Washington-----	-	-	10,400	50,994	61,394	18,178	18,178	166,624	184,802
West Virginia-----	-	-	35,616	35,616	35,616	-	-	-	-
Wyoming-----	-	-	2,272	20,828	22,828	18,178	18,178	-	-
Total-----	43,642	6,509	692,460	-	742,611	6,020,800	5,541,872	48,326,098	50,269,739

TABLE B-17. - Injury experience and worktime data by general work location at granite operations in the United States, by State, 1971

State	Fatal						Nonfatal							
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Total mining activities	Mills	Grand total
	Underground	Surface	Total						Underground	Surface	Total			
Injuries														
Alabama-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
California-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delaware-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	4	-	4	-	4	-	-	-	204	219	423

TABLE B-17. - Injury experience and worktime data by general work location at granite operations in the United States, by State, 1971 - Continued

State	Fatal				Nonfatal							
	Underground mines			Grand total	Mills	Total mining activities	Other surface mining	Open quarries	Total mining activities	Mills	Grand total	
	Underground		Total									
	Underground	Surface										
Severity rates per million man-hours												
Alabama-----	-	-	-	-	-	-	-	516	-	516	347	487
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	320	-	320	784	573
Arkansas-----	-	-	-	-	-	-	-	239	-	239	1,837	1,041
California-----	-	-	-	-	-	-	-	970	-	970	437	679
Colorado-----	-	-	-	-	-	-	-	-	-	-	786	421
Connecticut-----	-	-	-	-	-	-	-	900	-	900	339	610
Delaware-----	-	-	-	-	-	-	-	559	-	559	442	435
Florida-----	-	-	-	-	-	-	-	79	-	79	53	59
Georgia-----	-	-	-	1,713	-	3,549	-	1,188	-	1,188	176	935
Idaho-----	-	-	-	-	-	-	-	176	-	176	1,948	665
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-
Indiana-----	-	-	-	-	-	-	-	1,086	-	1,086	810	863
Iowa-----	-	-	-	-	-	-	-	2,159	-	2,159	456	959
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana-----	-	-	-	-	-	-	-	748	-	748	1,044	797
Maine-----	-	-	-	-	-	-	-	570	-	570	688	651
Maryland-----	-	-	-	-	-	-	-	831	-	831	1,104	930
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	748	-	748	1,044	797
New Jersey-----	-	-	-	-	-	-	-	570	-	570	688	651
New Mexico-----	-	-	-	-	-	-	-	831	-	831	1,104	930
New York-----	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina-----	-	-	-	-	-	-	-	350	-	289	8,577	1,742
Oklahoma-----	-	-	-	4,148	-	7,070	-	216	-	216	673	405
Oregon-----	-	-	-	-	-	-	-	436	-	436	2,015	1,496
Pennsylvania-----	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	312	139
South Carolina-----	-	-	-	-	-	-	-	7,065	-	7,065	-	7,065
South Dakota-----	-	-	-	5,703	-	10,745	-	931	-	931	498	728
Texas-----	-	-	-	-	-	-	-	777	-	777	945	860
Vermont-----	-	-	-	-	-	-	-	516	-	516	8,915	6,059
Virginia-----	-	-	-	-	-	-	-	274	-	274	284	277
Washington-----	-	-	-	-	-	-	-	476	-	476	163	340
Wisconsin-----	-	-	-	-	-	-	-	104	-	104	-	83
Wyoming-----	-	-	-	-	-	-	-	1,941	-	1,941	375	1,362
Combined rate-----	-	-	-	1,406	-	2,700	-	562	-	559	1,010	775

TABLE B-18. - Injury experience and worktime data by general work location at limestone operations in the United States, by State, 1971

State	Fatal				Nonfatal												
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	
	Underground	Surface	Total						Underground	Surface	Total						
Injuries																	
Alabama-----	-	-	-	-	-	-	-	-	2	-	2	4	8	14	11	25	
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	9	-	13	10	23	
California-----	4	-	4	1	-	5	-	5	11	2	13	9	2	24	5	29	
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	3	-	3	2	5	
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	
Florida-----	-	-	-	4	-	4	1	5	-	-	-	73	7	80	65	145	
Georgia-----	-	-	-	1	-	1	-	1	-	-	-	8	-	8	8	16	
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	8	-	8	1	9	
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	
Illinois-----	-	-	-	2	-	2	1	3	4	6	10	71	-	81	78	159	
Indiana-----	-	-	-	1	-	1	1	2	1	1	2	57	-	57	54	111	
Iowa-----	-	-	-	1	-	1	1	2	2	1	3	63	-	66	23	89	
Kansas-----	-	-	-	-	-	-	-	-	2	2	4	6	-	10	11	21	
Kentucky-----	-	-	-	-	-	-	-	-	17	25	42	53	-	95	100	195	
Louisiana-----	1	-	1	-	-	-	-	-	-	-	-	-	37	37	10	47	
Maine-----	-	-	-	-	-	-	1	1	-	-	-	2	-	2	2	4	
Maryland-----	-	-	-	-	-	-	-	-	-	1	1	6	1	8	2	10	
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	
Michigan-----	-	-	-	-	-	-	1	1	-	-	-	21	-	21	14	35	
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	8	-	8	33	41	
Mississippi-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Missouri-----	-	1	1	1	-	2	2	4	13	4	17	41	-	58	65	123	
Montana-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	2	
Nebraska-----	-	-	-	-	-	-	-	-	2	-	2	4	-	6	25	31	
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	4	6	
New York-----	-	-	-	-	-	-	-	-	-	-	-	28	-	28	21	49	
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	7	9	
Ohio-----	-	-	-	1	-	1	1	1	-	-	-	39	-	39	28	67	
Oklahoma-----	-	-	-	1	-	1	1	1	1	-	1	25	-	26	27	53	
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
Pennsylvania-----	-	-	-	1	-	1	1	1	3	-	3	58	-	61	52	113	
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	2	
South Carolina-----	-	-	-	-	-	-	-	-	-	-	-	6	-	6	1	7	
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tennessee-----	-	-	-	2	-	2	1	3	-	3	3	29	-	32	48	80	
Texas-----	-	-	-	-	-	-	1	1	1	-	1	68	25	94	41	135	
Utah-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	
Virginia-----	-	-	-	1	-	1	1	2	-	-	-	43	-	43	45	88	
Washington-----	-	-	-	1	-	1	1	1	-	-	-	-	-	-	-	-	
West Virginia-----	-	-	-	1	-	1	1	2	6	6	12	11	-	23	12	35	
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	43	-	43	9	52	
Wyoming-----	-	-	-	-	-	-	-	-	2	1	3	1	-	4	1	5	
Total-----	5	1	6	18	-	24	12	36	70	51	121	811	80	1,012	829	1,841	

TABLE B-18. - Injury experience and worktime data by general work location at limestone operations in the United States, by State, 1971 - Continued

State	Active operations		Average men working daily							Average days active					
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alabama-----	39	38	17	3	20	324	32	376	363	739	242	245	313	250	260
Alaska-----	1	-	-	-	-	2	-	2	-	2	-	66	-	66	-
Arizona-----	2	2	-	-	-	25	-	25	10	35	-	253	-	253	169
Arkansas-----	38	21	19	7	26	147	-	173	182	355	265	241	-	243	263
California-----	25	19	44	13	57	164	6	207	167	374	263	181	37	199	303
Colorado-----	13	-	-	-	-	63	-	63	28	91	-	167	-	167	206
Connecticut-----	3	3	-	-	-	-	-	-	20	27	-	264	-	264	279
Delaware-----	94	74	-	-	-	1,085	90	1,175	1,050	2,225	283	283	304	285	305
Florida-----	11	9	-	-	-	118	-	118	98	216	-	264	-	264	269
Georgia-----	5	5	-	-	-	48	-	48	8	56	-	210	-	210	256
Hawaii-----	8	-	-	-	-	17	-	17	14	31	-	94	-	94	273
Idaho-----	3	2	140	27	167	1,289	-	1,456	1,116	2,572	263	232	-	236	258
Illinois-----	233	160	7	2	9	970	-	979	930	1,909	200	243	-	243	250
Indiana-----	112	106	37	14	51	1,362	-	1,413	760	2,173	204	190	-	191	201
Iowa-----	308	155	67	22	89	586	-	675	339	1,014	249	240	-	241	246
Kansas-----	176	81	280	111	391	970	-	1,361	680	2,041	241	252	-	249	253
Kentucky-----	118	113	-	-	-	-	170	170	102	272	-	340	-	340	323
Louisiana-----	9	10	-	-	-	18	-	18	6	24	-	282	-	282	274
Maine-----	3	2	16	3	19	306	7	332	264	596	169	244	329	241	284
Maryland-----	18	18	-	-	-	4	-	4	8	12	-	255	-	255	265
Massachusetts-----	21	2	6	2	8	558	-	566	863	1,429	220	252	-	231	248
Michigan-----	24	24	-	-	-	241	-	241	197	438	-	167	-	167	197
Minnesota-----	74	48	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi-----	1	1	-	-	-	10	-	10	2	12	-	260	-	260	232
Missouri-----	252	184	255	87	342	1,235	-	1,577	647	2,224	247	231	-	234	243
Montana-----	5	3	-	-	-	30	-	30	5	35	-	300	-	300	243
Nebraska-----	28	25	12	3	15	182	-	197	84	281	284	268	-	270	272
Nevada-----	2	1	-	-	-	12	-	12	2	14	-	149	-	149	212
New Jersey-----	2	2	-	-	-	6	-	6	17	23	-	274	-	274	269
New Mexico-----	16	16	-	-	-	51	-	51	15	66	-	221	-	221	243
New York-----	56	56	-	-	-	655	-	655	502	1,157	-	222	-	222	212
North Carolina-----	10	9	-	-	-	135	-	135	34	169	-	198	-	198	199
Ohio-----	125	119	88	5	93	981	-	1,074	810	1,884	230	241	-	240	258
Oklahoma-----	43	59	6	7	13	580	-	593	198	791	256	261	-	261	270
Oregon-----	1	1	-	-	-	5	-	5	1	11	-	145	-	145	145
Pennsylvania-----	136	129	59	24	83	1,255	-	1,338	1,071	2,409	217	235	-	234	249
Rhode Island-----	1	1	-	-	-	5	-	5	21	26	-	275	-	275	275
South Carolina-----	2	2	-	-	-	36	-	36	36	72	-	258	-	258	260
South Dakota-----	5	5	-	-	-	22	-	22	52	74	-	224	-	224	280
Tennessee-----	112	107	25	17	42	932	-	974	692	1,666	247	236	-	237	234
Texas-----	138	126	3	1	4	885	113	1,002	732	1,754	270	243	308	231	266
Utah-----	8	8	3	1	4	67	-	67	27	94	260	204	-	207	198
Vermont-----	5	-	-	-	-	68	-	68	23	91	-	270	-	270	239
Virginia-----	74	71	4	2	6	768	-	774	628	1,402	219	232	-	232	250
Washington-----	4	-	-	-	-	26	-	26	27	53	-	171	-	171	171
West Virginia-----	34	27	106	31	137	269	-	269	231	637	258	262	-	247	238
Wisconsin-----	323	135	-	-	-	841	-	841	307	1,148	-	190	-	190	197
Wyoming-----	9	6	31	6	37	244	-	244	19	100	240	101	-	165	194
Total or average-----	2,720	2,002	1,229	389	1,618	17,380	418	19,416	13,408	32,824	244	234	317	236	251

TABLE B-19. - Injury experience and worktime data by general work location at limestone (chief product, lime) operations in the United States, by State, 1971 - Continued

State	Active operations		Average men working daily						Average days active						
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alabama-----	6	5	15	3	18	98	-	116	185	301	289	271	-	274	348
Arizona-----	5	5	-	-	-	27	-	27	57	84	-	280	-	280	331
Arkansas-----	1	2	-	-	-	30	-	30	66	96	-	261	-	261	262
California-----	5	11	5	3	8	47	-	55	147	202	254	255	-	255	335
Colorado-----	2	2	-	-	-	36	-	36	18	54	-	129	-	129	199
Connecticut-----	1	1	5	-	-	5	-	5	35	40	-	302	-	302	285
Florida-----	2	2	-	-	-	28	-	28	28	28	-	-	-	-	365
Georgia-----	1	1	-	-	-	1	-	1	8	9	-	40	-	40	40
Hawaii-----	1	1	-	-	-	2	-	2	13	15	-	52	-	52	152
Illinois-----	2	5	11	11	22	-	-	22	176	198	287	-	-	287	343
Indiana-----	1	1	-	-	-	-	-	-	27	27	-	-	-	-	361
Iowa-----	2	2	15	15	30	-	-	30	23	53	280	-	-	280	345
Kansas-----	1	3	-	-	-	-	-	-	87	87	-	-	-	-	362
Louisiana-----	2	2	-	-	-	17	-	17	25	42	-	286	-	286	305
Maryland-----	2	2	-	-	-	22	-	22	149	171	-	312	-	312	310
Massachusetts-----	2	8	-	-	-	-	-	-	129	129	-	-	-	-	336
Michigan-----	-	1	-	-	-	-	-	-	12	12	-	-	-	-	365
Minnesota-----	4	7	90	22	112	44	-	156	543	699	357	221	-	318	342
Missouri-----	1	1	-	-	-	10	-	10	3	13	-	214	-	214	214
Montana-----	3	4	-	-	-	32	-	32	45	77	-	272	-	272	356
Nevada-----	1	1	-	-	-	14	-	14	60	74	-	272	-	272	279
New Jersey-----	1	1	-	-	-	2	-	2	6	8	-	330	-	330	331
New Mexico-----	1	2	-	-	-	113	-	113	83	196	-	262	-	262	267
New York-----	14	26	13	3	16	186	-	202	1,229	1,431	204	288	-	281	332
Ohio-----	1	2	17	4	21	-	-	21	37	58	258	-	-	258	357
Oklahoma-----	2	2	-	-	-	-	-	-	28	28	-	-	-	-	271
Oregon-----	16	15	140	26	166	304	-	470	823	1,293	279	259	-	266	296
Pennsylvania-----	1	1	-	-	-	3	-	3	2	5	-	312	-	312	300
South Dakota-----	3	3	-	-	-	35	-	35	54	89	-	337	-	337	320
Tennessee-----	7	7	-	-	-	130	-	130	289	419	-	275	-	275	365
Texas-----	5	4	-	-	-	35	-	35	51	86	-	244	-	244	323
Utah-----	1	1	-	-	-	2	-	2	10	12	-	290	-	290	290
Vermont-----	1	1	-	-	-	-	-	-	305	471	210	291	-	238	303
Virginia-----	8	8	92	17	109	57	-	166	34	44	-	264	-	-	331
Washington-----	1	1	-	-	-	-	-	-	19	19	-	110	-	110	289
West Virginia-----	3	4	-	-	-	15	-	15	121	136	-	276	-	276	276
Wisconsin-----	4	6	-	-	-	13	-	-	-	-	-	-	-	-	321
Total or average-----	103	151	398	104	502	1,286	-	1,788	4,989	6,777	278	266	-	269	321

TABLE B-20. - Injury experience and worktime data by general work location at marble operations in the United States, by State, 1971 - Continued

State	Fatal					Nonfatal									
	Underground mines			Open quarries	Other surface mining	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	
	Underground	Surface	Total				Underground	Surface	Total						
Severity rates per million man-hours															
Alabama-----	-	-	-	-	-	-	-	-	-	363	-	363	202	248	
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	7,139	5,045	
Arkansas-----	-	-	-	-	-	-	-	-	-	2,871	-	-	-	1,325	
California-----	-	-	-	-	-	-	-	-	-	279	-	279	335	318	
Colorado-----	-	-	-	-	-	-	539	290	493	926	-	-	-	-	
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	755	746	749	
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Michigan-----	-	-	-	-	-	-	2,115	-	1,681	1,667	-	1,677	-	693	
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
North Carolina-----	-	-	-	171,821	-	64,020	-	-	-	86	-	86	952	630	
Tennessee-----	-	-	-	-	-	-	-	-	-	477	-	477	1,193	914	
Texas-----	-	-	-	-	-	-	855	-	855	761	-	778	1,746	1,394	
Vermont-----	-	-	-	-	-	-	875	-	701	-	-	701	131	316	
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	670	426	
Washington-----	-	-	-	-	-	-	-	-	-	2,603	-	2,603	662	1,715	
Wyoming-----	-	-	-	-	-	-	-	-	-	2,080	-	2,080	40	914	
Combined rate-----	-	-	-	4,799	-	1,425	908	93	752	687	-	710	604	636	
Average men working daily															
Average days active															
Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills	
		Underground	Surface	Total											
Alabama-----	3	-	-	-	116	-	116	285	401	-	250	-	250	250	
Arizona-----	3	-	-	-	7	-	7	12	19	-	173	-	173	244	
Arkansas-----	2	-	-	-	6	-	6	7	13	-	254	-	254	254	
California-----	1	-	-	-	8	-	8	10	18	-	162	-	162	265	
Colorado-----	1	-	-	-	3	-	3	-	3	-	85	-	85	-	
Georgia-----	16	48	11	59	133	-	192	488	680	314	213	-	244	268	
Idaho-----	1	-	-	-	1	-	1	-	1	-	226	-	226	-	
Illinois-----	1	2	1	3	3	-	3	5	8	200	-	-	-	-	
Indiana-----	1	27	7	34	19	216	53	216	269	249	229	-	241	253	
Iowa-----	4	-	-	-	8	-	8	8	16	-	163	-	163	214	
Kansas-----	2	-	-	-	1	-	1	-	1	-	260	-	260	-	
Michigan-----	3	-	-	-	11	-	18	4	22	259	260	-	260	214	
Minnesota-----	2	6	1	7	17	-	30	4	47	-	257	-	257	245	
Montana-----	3	-	-	-	67	-	67	98	165	-	239	-	239	248	
New York-----	3	-	-	-	22	-	22	46	72	260	236	-	240	250	
North Carolina-----	6	-	-	-	4	-	4	26	326	232	-	-	232	247	
Tennessee-----	39	4	-	110	72	-	110	216	326	232	260	-	240	240	
Texas-----	2	88	-	-	4	-	4	7	11	-	192	-	192	289	
Vermont-----	1	-	-	-	7	-	7	-	13	-	292	-	292	289	
Virginia-----	1	-	-	-	6	-	6	8	14	-	-	-	-	-	
Washington-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wyoming-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average-----	101	48	175	42	217	436	653	1,446	2,099	258	230	-	239	255	

TABLE B-20. - Injury experience and worktime data by general work location at marble operations in the United States, by State, 1971 - Continued

State	Man-days worked						Man-hours worked										
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	
	Underground	Surface	Total						Underground	Surface	Total						
Alabama-----	-	-	-	28,948	-	28,948	71,252	100,200	-	-	-	231,588	-	-	231,588	570,014	801,602
Arizona-----	-	-	-	1,214	-	1,214	2,324	4,138	-	-	-	9,712	-	-	9,712	22,392	33,104
Arkansas-----	-	-	-	1,524	-	1,524	1,778	3,303	-	-	-	12,190	-	-	12,190	26,414	27,938
California-----	-	-	-	1,293	-	1,293	2,650	3,943	-	-	-	17,762	-	-	17,762	23,650	25,593
Colorado-----	-	-	-	255	-	255	2,555	2,555	-	-	-	2,040	-	-	2,040	34,812	36,857
Georgia-----	15,077	3,447	18,524	28,338	-	46,862	130,812	177,672	120,618	27,577	148,195	226,705	-	-	372,900	1,046,494	1,421,394
Idaho-----	-	-	-	226	-	226	600	1,250	3,200	1,600	4,800	1,808	-	-	1,808	10,000	11,808
Maryland-----	400	200	600	4,349	-	600	54,559	67,358	53,436	13,768	67,204	34,790	-	-	101,994	436,473	538,467
Missouri-----	6,729	1,721	8,450	1,303	-	1,303	1,711	3,014	-	-	-	10,423	-	-	10,423	13,688	24,111
Montana-----	-	-	-	260	-	260	760	760	-	-	-	2,080	-	-	2,080	2,080	2,080
Nevada-----	1,554	256	1,810	2,865	-	4,675	856	5,531	12,432	2,048	14,480	22,918	-	-	37,398	6,848	44,246
New York-----	-	-	-	4,365	-	4,365	7,350	11,715	-	-	-	34,920	-	-	34,920	58,800	93,720
North Carolina-----	-	-	-	16,008	-	16,008	24,293	40,301	-	-	-	121,572	-	-	121,572	190,249	311,821
Tennessee-----	-	-	-	5,192	-	5,192	17,752	17,752	9,360	-	9,360	43,372	-	-	52,732	92,194	144,926
Texas-----	1,040	-	1,040	-	-	6,232	53,286	78,800	163,440	40,672	204,112	-	-	-	204,112	426,288	630,400
Vermont-----	20,430	5,084	25,514	960	-	25,514	1,680	2,640	-	-	-	7,680	-	-	7,680	13,440	21,120
Virginia-----	-	-	-	1,347	-	1,347	1,133	2,480	-	-	-	10,757	-	-	10,757	9,063	19,820
Washington-----	-	-	-	1,753	-	1,753	2,337	4,090	-	-	-	18,752	-	-	18,752	25,002	43,754
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	45,230	10,708	55,938	100,200	-	156,138	369,391	525,529	362,486	85,665	448,151	802,069	-	-	1,250,220	2,960,019	4,210,239

TABLE B-21. - Injury experience and worktime data by general work location at sandstone operations in the United States, by State, 1971

State	Fatal					Nonfatal					Grand total							
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines									
	Underground	Surface							Total	Underground		Surface		Total				
Injuries																		
Alabama-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1		
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	5	-	5	10	15		
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	12	-	12	6	18		
California-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	3	5		
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1		
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	3	-	3	22	25		
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5		
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1		
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	3	-	3	3	6		
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	1	3		
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	2		
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3		
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	3	-	3	7	10		
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	1	3		
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1		
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	9	10		
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2		
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	36		
Ohio-----	-	-	-	-	-	-	-	-	-	-	-	22	-	22	-	6		
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	5	6		
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	3		
Pennsylvania-----	-	-	-	-	-	-	-	-	6	-	6	15	-	15	10	31		
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	3	-	3	2	5		
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	5	-	5	4	9		
Texas-----	-	-	-	-	-	-	-	-	-	-	-	2	-	2	4	6		
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	5	-	5	6	11		
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
West Virginia-----	-	-	-	-	-	-	-	-	-	-	-	5	-	5	10	15		
Wisconsin-----	-	-	-	-	-	-	-	-	-	-	-	3	-	3	11	14		
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total-----	-	-	-	-	-	-	-	-	7	-	7	100	-	107	141	248		

TABLE B-21. - Injury experience and worktime data by general work location at sandstone operations in the United States, by State, 1971 - Continued

State	Fatal				Nonfatal							
	Underground mines			Open quarries	Other surface mining	Total mining activities	Open quarries	Other surface mining	Total mining activities	Mills	Grand total	
	Underground	Surface	Total									
												Underground
Frequency rates per million man-hours												
Alabama-----	-	-	-	-	-	-	48.49	-	-	48.49	-	43.68
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-
California-----	-	-	-	-	-	-	18.09	-	-	17.22	18.64	18.14
Colorado-----	-	-	-	-	-	-	53.97	-	-	53.97	31.18	43.40
Connecticut-----	-	-	-	-	-	-	16.86	-	-	16.85	53.26	28.56
Delaware-----	-	-	-	-	-	-	-	-	-	-	-	-
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-
Georgia-----	-	-	-	-	-	-	9.01	-	-	9.01	-	7.16
Idaho-----	-	-	-	-	-	-	-	-	-	-	161.94	40.49
Illinois-----	-	-	-	-	-	-	-	-	-	-	29.14	27.50
Indiana-----	-	-	-	-	-	-	19.55	-	-	19.49	177.01	141.35
Iowa-----	-	-	-	-	-	24.87	-	-	-	21.94	-	19.63
Kansas-----	-	-	-	-	-	-	36.43	-	-	36.43	33.42	34.86
Kentucky-----	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	31.29	-	-	31.29	46.80	35.17
Massachusetts-----	-	-	-	-	-	-	96.90	-	-	96.90	-	18.11
Michigan-----	-	-	-	-	-	-	-	-	-	-	22.76	16.75
Minnesota-----	-	-	-	-	-	-	58.01	-	-	58.01	92.48	78.49
Missouri-----	-	-	-	-	-	-	19.56	-	-	15.61	9.38	12.78
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	-	-	-	30.06	-	-	30.06	-	24.79
New York-----	-	-	-	-	-	-	12.77	-	-	12.77	77.99	51.63
North Carolina-----	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	-	-	-	-	-	-	51.74	-	-	51.74	18.47	48.44
Oklahoma-----	-	-	-	-	-	-	14.94	-	-	14.94	110.52	25.87
Oregon-----	-	-	-	-	-	-	47.49	-	-	47.49	232.34	30.42
Pennsylvania-----	-	-	-	-	-	99.68	22.34	-	-	27.57	20.45	53.50
South Dakota-----	-	-	-	-	-	-	19.53	-	-	19.53	28.24	101.14
Tennessee-----	-	-	-	-	-	-	76.55	-	-	76.55	30.75	24.79
Texas-----	-	-	-	-	-	-	13.09	-	-	13.09	17.24	22.28
Utah-----	-	-	-	-	-	-	-	-	-	-	-	46.06
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	15.59
Washington-----	-	-	-	-	-	-	44.39	-	-	44.39	36.85	-
West Virginia-----	-	-	-	-	-	-	17.52	-	-	17.52	28.59	-
Wisconsin-----	-	-	-	-	-	-	54.09	-	-	50.51	76.75	23.62
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	69.06
Combined rate-----	-	-	-	-	-	51.05	38.72	-	-	27.47	29.13	28.63

TABLE B-21. - Injury experience and worktime data by general work location at sandstone operations in the United States, by State, 1971 - Continued

State	Active operations		Average men working daily						Average days active						
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alabama-----	5	1	-	-	-	14	-	14	1	15	-	194	-	194	253
Arizona-----	50	17	-	-	-	33	-	33	15	48	-	222	-	222	244
Arkansas-----	14	18	5	1	6	151	-	157	236	393	260	221	-	223	283
California-----	28	16	-	-	-	136	-	136	98	234	-	206	-	206	248
Colorado-----	39	6	2	-	2	94	-	96	31	127	7	157	-	154	226
Connecticut-----	5	1	-	-	-	6	-	6	15	21	-	174	-	174	247
Georgia-----	5	3	-	-	-	51	-	51	13	64	-	243	-	243	248
Idaho-----	1	1	-	-	-	15	-	15	5	20	-	130	-	130	130
Illinois-----	8	9	1	-	1	64	-	65	344	409	120	275	-	273	275
Indiana-----	7	3	-	-	-	9	-	9	17	26	-	100	-	100	208
Iowa-----	1	1	15	2	17	-	-	17	2	19	335	-	-	335	335
Kansas-----	4	6	-	-	-	38	-	38	39	77	-	256	-	256	273
Kentucky-----	1	1	-	-	-	3	-	3	1	4	-	260	-	260	260
Maryland-----	9	8	-	-	-	37	-	37	11	48	-	216	-	216	243
Massachusetts-----	3	3	-	-	-	16	-	16	66	82	-	161	-	161	160
Michigan-----	5	1	-	-	-	23	-	23	56	79	-	256	-	256	295
Minnesota-----	3	13	-	-	-	29	-	29	38	67	-	215	-	215	247
Missouri-----	8	10	11	2	13	54	-	67	48	115	249	237	-	239	278
Montana-----	4	3	-	-	-	17	-	17	13	30	-	232	-	232	321
Nevada-----	4	3	-	-	-	19	-	19	17	36	-	276	-	276	286
New Hampshire-----	1	1	-	-	-	2	-	2	4	6	-	300	-	300	300
New Jersey-----	1	-	-	-	-	1	-	1	-	-	-	8	-	8	-
New Mexico-----	14	13	-	-	-	25	-	25	5	30	-	166	-	166	177
New York-----	12	11	-	-	-	47	-	47	65	112	-	208	-	208	223
North Carolina-----	8	5	-	-	-	18	-	18	17	35	-	249	-	249	304
Ohio-----	54	25	-	-	-	243	-	243	378	621	-	218	-	218	251
Oklahoma-----	8	8	-	-	-	32	-	32	20	52	-	249	-	249	250
Oregon-----	6	5	-	-	-	13	-	13	5	18	-	200	-	200	215
Pennsylvania-----	62	41	22	11	33	356	-	389	250	639	304	227	-	233	239
South Dakota-----	19	13	-	-	-	78	-	78	33	111	-	262	-	262	240
Tennessee-----	7	7	-	-	-	39	-	39	62	101	-	205	-	205	258
Texas-----	32	20	-	-	-	60	-	60	93	153	-	271	-	271	262
Utah-----	12	2	-	-	-	27	-	27	4	31	-	77	-	77	254
Virginia-----	17	10	-	-	-	64	-	64	72	136	-	214	-	214	281
Washington-----	8	3	2	-	2	17	-	19	12	31	30	122	-	113	148
West Virginia-----	23	8	-	-	-	145	-	145	169	314	-	241	-	241	258
Wisconsin-----	13	8	1	1	2	42	-	44	70	114	-	164	-	168	256
Wyoming-----	5	-	-	-	-	3	-	3	-	3	-	36	-	36	-
Total or average-----	538	292	59	17	76	2,021	-	2,097	2,325	4,422	279	219	-	221	256

TABLE B-21. - Injury experience and worktime data by general work location at sandstone operations in the United States, by State, 1971 - Continued

State	Man-days worked				Man-hours worked											
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total
	Underground	Surface	Total						Underground	Surface	Total					
Alabama-----	-	-	-	2,715	-	2,715	2,968	-	-	-	20,624	2,269	22,893	-	-	22,893
Arizona-----	-	-	-	7,314	-	7,314	3,634	-	-	-	59,518	29,231	88,749	-	-	88,749
Arkansas-----	1,300	260	1,560	33,412	-	33,412	66,697	-	-	-	276,361	536,458	812,819	-	-	812,819
California-----	-	-	-	28,048	-	28,048	52,311	-	-	-	222,337	192,422	414,759	-	-	414,759
Colorado-----	14	-	14	14,798	-	14,812	7,008	112	112	-	118,611	56,326	175,009	-	-	175,009
Connecticut-----	-	-	-	1,046	-	1,046	3,705	-	-	-	8,365	29,640	38,005	-	-	38,005
Delaware-----	-	-	-	12,410	-	12,410	3,223	-	-	-	110,934	28,766	139,700	-	-	139,700
Georgia-----	-	-	-	1,950	-	1,950	2,600	-	-	-	18,525	6,175	24,700	-	-	24,700
Idaho-----	-	-	-	17,595	-	17,715	94,542	480	480	-	153,913	755,020	908,933	-	-	908,933
Illinois-----	120	-	120	17,595	-	17,715	94,542	480	480	-	153,913	755,020	908,933	-	-	908,933
Indiana-----	-	-	-	900	-	900	3,531	-	-	-	7,127	28,247	35,374	-	-	35,374
Iowa-----	5,026	670	5,696	-	-	-	6,366	-	-	-	45,571	5,361	50,932	-	-	50,932
Kansas-----	-	-	-	9,741	-	9,741	10,637	-	-	-	82,360	89,780	172,140	-	-	172,140
Kentucky-----	-	-	-	780	-	780	2,660	-	-	-	6,240	2,080	8,320	-	-	8,320
Maryland-----	-	-	-	7,991	-	7,991	10,671	-	-	-	63,927	21,368	85,295	-	-	85,295
Massachusetts-----	-	-	-	2,580	-	2,580	13,150	-	-	-	20,640	84,560	105,200	-	-	105,200
Michigan-----	-	-	-	5,898	-	5,898	16,494	-	-	-	47,180	131,954	179,134	-	-	179,134
Minnesota-----	-	-	-	6,222	-	6,222	9,396	-	-	-	51,712	75,696	127,408	-	-	127,408
Missouri-----	2,748	488	3,236	12,779	-	12,779	29,336	21,983	3,905	-	25,888	128,114	234,680	-	-	234,680
Montana-----	-	-	-	3,952	-	3,952	4,178	-	-	-	31,619	33,428	65,047	-	-	65,047
Nebraska-----	-	-	-	5,253	-	5,253	8,110	-	-	-	42,025	38,856	80,881	-	-	80,881
Nevada-----	-	-	-	600	-	600	1,800	-	-	-	5,400	10,800	16,200	-	-	16,200
New Hampshire-----	-	-	-	8	-	8	8	-	-	-	63	63	71	-	-	71
New Jersey-----	-	-	-	4,158	-	4,158	5,043	-	-	-	33,266	7,080	40,346	-	-	40,346
New Mexico-----	-	-	-	9,785	-	9,785	14,490	-	-	-	78,281	115,399	193,680	-	-	193,680
New York-----	-	-	-	4,475	-	4,475	5,160	-	-	-	36,009	41,287	77,296	-	-	77,296
North Carolina-----	-	-	-	52,998	-	52,998	94,708	-	-	-	425,228	758,092	1,183,320	-	-	1,183,320
Ohio-----	-	-	-	7,977	-	7,977	5,010	-	-	-	66,913	45,240	112,153	-	-	112,153
Oklahoma-----	-	-	-	2,603	-	2,603	1,076	-	-	-	21,055	8,608	29,663	-	-	29,663
Oregon-----	-	-	-	80,725	-	80,725	59,757	-	-	-	761,701	489,029	1,250,730	-	-	1,250,730
Pennsylvania-----	6,688	3,344	10,032	20,410	-	20,410	28,320	60,192	30,096	-	153,580	70,828	224,408	-	-	224,408
South Dakota-----	-	-	-	7,910	-	7,910	24,015	-	-	-	65,321	130,065	195,386	-	-	195,386
Tennessee-----	-	-	-	16,268	-	16,268	24,366	-	-	-	152,747	232,038	384,785	-	-	384,785
Texas-----	-	-	-	2,087	-	2,087	3,102	-	-	-	16,230	7,320	23,550	-	-	23,550
Utah-----	-	-	-	13,680	-	13,680	20,259	-	-	-	112,635	162,840	275,475	-	-	275,475
Virginia-----	-	-	-	2,081	-	2,081	3,916	464	464	-	17,115	16,311	31,426	-	-	31,426
Washington-----	59	-	59	34,910	-	34,910	43,588	-	-	-	285,377	349,812	635,189	-	-	635,189
West Virginia-----	-	-	-	6,901	-	6,901	17,916	-	-	-	55,462	59,398	143,328	-	-	143,328
Wisconsin-----	246	246	492	107	-	107	25,309	1,968	3,936	-	749	749	749	-	-	749
Wyoming-----	-	-	-	107	-	107	107	-	-	-	749	749	749	-	-	749
Total-----	16,201	5,008	21,209	443,155	-	443,155	1,060,065	137,109	43,670	-	3,820,923	4,840,280	8,661,203	-	-	8,661,203

TABLE B-22. - Injury experience and worktime data by general work location at slate operations in the United States, by State, 1971 - Continued

State	Active operations		Average men working daily						Average days active							
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills	Grand total
			Underground	Surface	Total											
Arkansas-----	2	1	-	-	3	-	3	15	18	-	217	-	217	-	217	288
California-----	3	1	5	1	6	9	13	9	14	252	167	-	167	-	167	264
Georgia-----	3	2	8	4	12	7	12	8	20	246	259	-	259	-	256	260
Maine-----	1	1	-	-	-	-	-	18	32	-	-	-	-	-	246	236
New York-----	8	5	-	-	-	-	-	14	30	-	240	-	240	-	219	274
North Carolina-----	11	2	-	-	-	37	37	20	57	-	219	-	219	-	237	248
Pennsylvania-----	9	11	-	-	-	136	136	228	364	-	237	-	237	-	236	236
Vermont-----	22	19	-	-	-	97	97	85	182	-	240	-	240	-	234	234
Virginia-----	5	6	-	-	-	69	69	182	251	-	264	-	264	-	264	290
Total or average-----	64	48	13	5	18	376	-	394	652	1,046	248	240	-	240	240	255
Man-hours worked																
Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	
Underground	Surface	Total						Underground	Surface	Total						
-	-	-	652	-	652	4,326	4,978	-	-	5,216	-	-	5,216	34,610	39,826	
Arkansas-----	-	-	1,503	-	1,503	1,320	2,823	-	-	10,584	-	-	10,584	10,560	21,144	
California-----	252	1,512	1,812	3,324	3,324	24,700	28,024	2,016	12,096	14,496	-	-	26,592	197,600	224,192	
Georgia-----	1,008	2,950	-	-	2,950	1,885	4,835	8,064	23,600	-	-	-	23,600	15,080	38,680	
Maine-----	-	-	-	-	-	4,323	2,721	7,044	15,536	35,807	-	-	35,807	23,054	58,861	
New York-----	-	-	-	-	-	8,112	4,960	13,072	64,480	64,480	-	-	64,480	39,680	104,160	
North Carolina-----	-	-	-	-	-	32,173	53,875	86,048	-	266,324	-	-	266,324	452,767	719,091	
Pennsylvania-----	-	-	-	-	-	23,314	19,915	43,229	-	196,604	-	-	196,604	161,274	357,878	
Vermont-----	-	-	-	-	-	18,218	52,776	70,994	-	161,354	-	-	161,354	422,994	564,348	
Virginia-----	-	-	-	-	-	94,569	166,478	261,047	25,616	10,080	734,865	-	770,561	1,357,619	2,128,180	
Total-----	3,202	1,260	4,462	90,107	-	94,569	166,478	261,047	25,616	10,080	35,696	-	770,561	1,357,619	2,128,180	

TABLE B-23. - Injury experience and worktime data by general work location at traprock operations in the United States, by State, 1971 - Continued

State	Active operations		Average men working daily							Average days active					
	Quarries	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	Mills
			Underground	Surface	Total										
Alaska-----	4	3	-	-	-	8	-	8	4	12	-	194	-	194	208
Arizona-----	8	2	-	-	-	20	-	20	6	26	-	256	-	256	256
California-----	16	7	-	-	-	85	-	85	102	187	-	204	-	204	205
Colorado-----	6	2	-	-	-	45	-	45	9	54	-	249	-	249	250
Connecticut-----	13	10	-	-	-	94	-	94	150	244	-	241	-	241	228
Hawaii-----	7	6	-	-	-	162	-	162	48	210	-	263	-	263	249
Idaho-----	17	9	-	-	-	82	-	82	35	117	-	140	-	140	158
Kansas-----	-	1	-	-	-	-	-	-	4	4	-	-	-	-	166
Maryland-----	5	6	-	-	-	128	-	128	143	271	-	263	-	263	246
Massachusetts-----	15	16	-	-	-	142	-	142	129	271	-	253	-	253	245
Michigan-----	3	3	-	-	-	14	-	14	4	18	-	73	-	73	69
Minnesota-----	1	1	-	-	-	4	-	4	11	15	-	133	-	133	133
Missouri-----	2	2	-	-	-	14	-	14	3	17	-	272	-	272	246
Montana-----	4	4	-	-	-	22	-	22	5	27	-	250	-	250	250
New Jersey-----	21	20	-	-	-	404	-	404	268	672	-	239	-	239	261
New Mexico-----	11	11	-	-	-	20	-	20	4	24	-	180	-	180	177
New York-----	3	3	-	-	-	81	-	81	51	132	-	223	-	223	256
North Carolina-----	9	7	-	-	-	109	-	109	45	154	-	238	-	238	228
Oregon-----	273	175	2	1	3	801	-	804	211	1,015	277	213	-	214	236
Pennsylvania-----	20	18	-	-	-	179	-	179	169	348	-	262	-	262	260
South Dakota-----	1	-	-	-	-	2	-	2	-	2	-	180	-	180	-
Texas-----	2	2	-	-	-	11	-	11	5	14	-	261	-	261	248
Virginia-----	11	9	-	-	-	109	-	109	57	166	-	265	-	265	285
Washington-----	214	92	-	-	-	639	-	639	138	777	-	159	-	159	159
Wisconsin-----	3	3	-	-	-	25	-	25	95	120	-	245	-	245	259
Wyoming-----	1	1	-	-	-	3	-	3	1	4	-	339	-	339	254
Total or average-----	670	413	2	1	3	3,203	-	3,206	1,695	4,901	277	217	-	217	236

TABLE B-24. - Injury experience and worktime data by general work location at miscellaneous stone operations in the United States, by State, 1971

State	Fatal						Nonfatal													
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total				
	Underground	Surface	Total						Underground	Surface	Total									
				Injuries																
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	6
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	3
California-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	9	27	36
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	3
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maine-----	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	6	8
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4
Massachusetts-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	8
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
Nebraska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6	9
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	6
New Jersey-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3
New Mexico-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	7
Pennsylvania-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	6
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	8
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	2	9	11
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	-	-	-	-	1	-	2	3	-	-	-	-	-	-	-	-	50	69	119

TABLE B-24. - Injury experience and worktime data by general work location at miscellaneous stone operations in the United States, by State, 1971 - Continued

State	Fatal					Nonfatal								
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines					
	Underground	Surface	Total						Underground	Surface	Total			
				Frequency rates per million man-hours										
Alaska-----	-	-	-	-	-	-	-	-	22.10	-	-	22.10	44.38	26.55
Arizona-----	-	-	-	-	-	-	-	-	64.82	-	-	64.82	125.74	77.30
California-----	-	-	-	-	-	-	1.97	1.18	26.37	-	-	26.37	53.13	42.38
Colorado-----	-	-	-	-	-	-	-	-	19.17	-	-	19.17	50.51	24.16
Connecticut-----	-	-	-	-	-	-	-	-	15.36	-	-	15.36	104.84	26.79
Delaware-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	24.71	103.46	-	-	103.46	283.86	197.68
Massachusetts-----	-	-	-	-	-	-	-	-	79.31	-	-	79.31	69.08	76.48
Michigan-----	-	-	-	-	-	-	-	-	34.29	-	-	34.29	63.49	44.53
Minnesota-----	-	-	-	-	-	-	-	-	-	-	-	-	6.59	5.63
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	25.62	-	-	25.62	43.12	28.51
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	114.99	-	-	114.99	-	69.03
New Jersey-----	-	-	-	-	-	-	-	-	139.27	-	-	139.27	29.90	62.75
New Mexico-----	-	-	-	-	-	-	-	-	18.59	-	-	18.59	181.60	46.30
New York-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon-----	-	-	-	-	-	-	-	-	23.54	-	-	23.54	88.05	34.32
Pennsylvania-----	-	-	-	-	-	-	-	-	18.87	-	-	18.87	114.48	36.09
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-	46.30	32.05
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas-----	-	-	-	-	-	-	-	-	19.14	-	-	19.14	34.23	26.42
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington-----	-	-	-	-	-	-	-	-	20.28	-	-	20.28	30.41	27.87
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Combined rate-----	-	-	-	.53	-	.53	1.34	.88	26.39	-	-	26.32	46.06	35.03

TABLE B-24. - Injury experience and worktime data by general work location at miscellaneous stone operations in the United States, by State, 1971 - Continued

State	Man-days worked					Man-hours worked					Grand total			
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total						
	Underground	Surface	Total											
Alaska-----	-	-	-	22,611	-	22,611	-	-	-	180,966	-	180,966	45,064	226,030
Arizona-----	-	-	-	3,857	-	3,857	-	-	-	30,856	-	30,856	7,953	38,809
California-----	-	-	-	42,176	-	42,176	-	-	-	341,313	-	341,313	508,225	849,538
Colorado-----	-	-	-	13,044	-	13,044	-	-	-	104,354	-	104,354	19,798	124,152
Hawaii-----	-	-	-	8,137	-	8,137	-	-	-	65,107	-	65,107	9,538	74,645
Idaho-----	-	-	-	450	-	450	-	-	-	3,600	-	3,600	-	3,600
Indiana-----	-	-	-	1,162	-	1,162	-	-	-	10,404	-	10,404	-	10,404
Maine-----	-	-	-	2,148	-	2,148	-	-	-	19,332	-	19,332	21,137	40,469
Maryland-----	-	-	-	4,710	-	4,710	-	-	-	37,824	-	37,824	14,476	52,300
Massachusetts-----	-	-	-	3,646	-	3,646	-	-	-	29,166	-	29,166	15,750	44,916
Michigan-----	-	-	-	5,485	597	6,082	-	-	-	43,078	4,764	47,842	5,296	53,138
Minnesota-----	-	-	-	2,556	-	2,556	-	-	-	25,239	-	25,239	151,451	176,690
Missouri-----	-	-	-	29,279	-	29,279	-	-	-	234,232	-	234,232	46,384	280,616
Montana-----	-	-	-	65	-	65	-	-	-	520	-	520	-	520
Nevada-----	-	-	-	2,741	-	2,741	-	-	-	26,089	-	26,089	17,370	43,459
New Hampshire-----	-	-	-	3,522	-	3,522	-	-	-	28,721	-	28,721	66,896	95,617
New Jersey-----	-	-	-	6,723	-	6,723	-	-	-	53,781	-	53,781	11,013	64,794
New Mexico-----	-	-	-	1,970	-	1,970	-	-	-	15,763	-	15,763	13,636	29,399
New York-----	-	-	-	710	-	710	-	-	-	5,678	-	5,678	1,784	7,462
North Dakota-----	-	-	-	223	-	223	-	-	-	1,784	-	1,784	-	1,784
Oklahoma-----	-	-	-	21,237	-	21,237	-	-	-	169,893	-	169,893	34,072	203,965
Oregon-----	-	-	-	18,021	-	18,021	-	-	-	158,996	-	158,996	193,936	311,936
Pennsylvania-----	-	-	-	1,200	-	1,200	-	-	-	9,600	-	9,600	21,600	31,200
Rhode Island-----	-	-	-	204	-	204	-	-	-	1,629	-	1,629	-	1,629
South Dakota-----	-	-	-	19,360	-	19,360	-	-	-	156,755	-	156,755	146,082	302,837
Texas-----	-	-	-	1,951	-	1,951	-	-	-	17,560	-	17,560	927	17,560
Utah-----	-	-	-	1,951	-	1,951	-	-	-	17,560	-	17,560	927	17,560
Vermont-----	-	-	-	12,329	-	12,329	-	-	-	98,633	-	98,633	296,003	394,636
Virginia-----	-	-	-	100	-	100	-	-	-	599	-	599	-	599
Washington-----	-	-	-	2,413	-	2,413	-	-	-	22,440	-	22,440	6,560	29,000
Wyoming-----	-	-	-	232,207	597	232,804	-	-	-	1,894,839	4,764	1,899,603	1,497,939	3,397,542
Total-----	-	-	-	232,207	597	232,804	-	-	-	1,894,839	4,764	1,899,603	1,497,939	3,397,542

TABLE B-25. - In-lurry experience and worktime data by general work location at stone quarries and mills in the United States, by State, 1971 - Continued

State	Active operations			Average men working daily						Average days active						
	Under-ground mines	Surface mines	Mills	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines	Open quarries	Other surface mining	Total mining activities	
				Underground	Surface	Total										
Alabama-----	2	63	59	32	6	38	637	32	707	1,612	2,319	264	250	313	254	295
Alaska-----	26	26	22	-	-	-	294	-	294	65	367	-	238	-	238	244
Arizona-----	-	89	37	-	-	-	162	-	162	327	489	-	250	-	250	330
Arkansas-----	3	53	53	24	8	32	1,498	-	1,498	901	1,431	264	246	-	247	293
California-----	3	216	94	21	115	136	1,170	6	1,291	3,042	4,333	286	214	37	220	330
Colorado-----	1	149	35	2	-	2	370	-	372	364	736	7	187	-	186	284
Connecticut-----	-	24	17	-	-	-	127	-	127	236	363	-	244	-	244	246
Florida-----	-	98	80	53	-	-	1,140	90	1,230	1,608	2,838	283	-	-	285	324
Georgia-----	6	93	85	12	93	65	1,087	-	1,152	1,760	2,912	308	243	304	247	276
Hawaii-----	-	43	25	-	-	-	279	-	279	263	542	-	237	-	237	304
Idaho-----	1	27	14	10	3	13	179	-	192	106	298	296	176	-	184	218
Illinois-----	10	236	177	152	38	190	1,431	-	1,621	2,052	3,673	265	235	-	239	286
Indiana-----	1	135	115	7	9	13	1,046	-	1,055	1,700	2,755	200	241	-	241	293
Iowa-----	9	307	163	67	31	98	1,460	-	1,558	1,393	2,951	250	194	-	198	275
Kansas-----	22	185	95	67	22	89	719	-	808	929	1,737	249	243	-	244	272
Kentucky-----	26	94	115	280	111	391	997	-	1,388	865	2,253	241	252	-	249	277
Louisiana-----	-	10	15	-	-	-	1	170	171	353	524	-	305	340	340	352
Maine-----	1	11	8	8	4	12	74	-	86	234	320	246	249	-	249	305
Maryland-----	3	45	44	18	4	22	577	7	606	649	1,255	173	250	329	248	298
Massachusetts-----	-	35	34	-	-	-	419	-	419	451	870	-	250	-	250	251
Michigan-----	1	60	47	6	2	8	794	4	806	2,285	3,091	220	252	149	251	284
Minnesota-----	-	98	59	-	-	-	408	-	408	813	1,221	-	185	-	185	249
Mississippi-----	-	4	3	-	-	-	28	-	28	94	122	-	242	-	242	229
Missouri-----	44	240	217	383	118	501	1,552	-	2,053	2,130	4,183	272	236	-	245	296
Montana-----	-	42	36	-	-	-	244	-	244	222	466	-	235	-	235	249
Nebraska-----	2	27	27	12	3	15	228	-	243	288	531	284	260	-	262	325
Nevada-----	-	20	14	-	-	-	156	-	156	142	298	-	245	-	245	336
New Hampshire-----	-	6	5	-	-	-	67	-	67	125	192	-	237	-	237	247
New Jersey-----	-	32	30	-	-	-	514	-	514	419	933	-	243	-	243	264
New Mexico-----	68	63	55	13	-	-	1,121	-	1,131	1,177	2,298	-	196	-	196	237
New York-----	2	199	99	13	3	16	1,178	-	1,198	854	2,012	240	233	-	234	300
North Carolina-----	-	135	99	-	-	-	1,178	-	1,178	854	2,012	-	231	-	231	246
North Dakota-----	-	1	1	-	-	-	3	-	3	1	5,066	-	237	-	237	223
Ohio-----	3	202	181	147	20	167	1,586	-	1,753	3,313	5,066	255	246	-	247	289
Oklahoma-----	2	68	81	23	11	34	693	-	727	670	1,397	257	257	-	257	285
Oregon-----	2	289	191	6	8	14	922	-	930	466	1,396	195	213	-	213	258
Pennsylvania-----	11	261	240	275	65	340	2,579	-	2,919	4,575	7,494	267	241	-	244	298
Rhode Island-----	-	4	2	-	-	-	16	-	16	36	52	-	189	-	189	235
South Carolina-----	-	21	16	-	-	-	327	-	327	487	814	-	240	-	240	309
South Dakota-----	-	35	22	-	-	-	226	-	226	314	540	-	246	-	246	270
Tennessee-----	4	130	127	25	17	42	1,166	-	1,208	1,547	2,755	247	242	-	242	281
Texas-----	2	243	183	7	8	15	1,391	113	1,512	2,799	4,311	265	252	308	256	324
Utah-----	-	16	16	3	4	7	150	-	154	192	346	260	195	-	197	245
Vermont-----	3	37	32	88	22	110	585	-	659	1,264	1,924	232	247	-	244	245
Virginia-----	4	155	139	96	19	115	1,563	-	1,678	1,864	3,542	211	243	-	241	281
Washington-----	1	255	113	2	2	4	753	-	755	401	1,156	30	162	-	162	222
West Virginia-----	7	54	40	106	31	137	483	-	620	695	1,315	258	238	-	242	253
Wisconsin-----	1	363	161	1	2	3	1,026	-	1,028	777	1,805	246	195	-	195	239
Wyoming-----	1	50	13	31	6	37	100	-	137	136	273	240	147	-	172	246
Total or average-----	162	5,017	3,558	2,038	584	2,622	32,720	422	35,764	47,042	82,806	256	234	315	237	290

TABLE 8-25. - Injury experience and worktime data by general work location at stone quarries and mills in the United States, by State, 1971 - Continued

State	Man-days worked					Man-hours worked					Grand total						
	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	Underground mines			Open quarries	Other surface mining	Total mining activities	Mills	Grand total	
	Underground	Surface	Total						Underground	Surface							Total
Alabama-----	8,381	1,654	10,035	159,502	10,020	179,557	476,044	655,601	67,606	13,332	80,938	1,359,847	106,558	1,547,343	3,900,408	5,447,751	
Alaska-----	-	-	-	69,832	-	69,832	15,833	85,665	-	-	-	558,743	-	558,743	126,660	685,403	
Arizona-----	-	-	-	40,339	-	40,339	107,902	148,441	-	-	-	327,505	-	327,505	863,660	1,191,165	
Arkansas-----	6,325	2,135	8,460	122,574	-	131,034	284,236	395,290	53,108	17,946	71,054	1,076,224	-	1,147,278	2,172,769	3,320,047	
California-----	26,481	6,396	32,877	620,613	224	693,714	1,003,636	1,287,344	212,369	51,229	263,598	2,018,384	1,928	2,283,910	8,089,278	10,373,188	
Colorado-----	14	-	14	97,207	-	97,221	123,438	172,462	112	-	112	365,538	-	365,538	834,382	1,400,232	
Connecticut-----	-	-	-	372,806	27,326	350,132	531,230	871,362	-	-	-	2,837,048	218,610	3,055,658	466,385	7,533,299	
Delaware-----	-	-	-	263,989	-	263,989	485,191	769,156	-	-	-	2,420,019	-	2,420,019	6,710,650	1,158,090	
Florida-----	16,337	3,699	20,036	66,193	-	66,193	79,982	146,175	130,698	29,593	160,291	2,420,019	-	2,580,310	630,836	1,158,090	
Georgia-----	-	-	-	35,309	-	35,309	23,140	34,607	6,152	30,759	37,811	527,254	-	565,065	1,030,836	1,595,900	
Hawaii-----	-	-	-	387,088	-	387,088	587,063	974,151	24,607	6,152	30,759	256,656	-	285,418	190,434	4,757,852	
Idaho-----	3,077	769	3,846	336,815	-	336,815	498,563	752,661	11,200	88,950	100,150	2,936,656	-	3,036,806	4,809,919	8,167,723	
Illinois-----	39,601	10,672	50,273	232,298	-	232,298	383,357	611,528	11,200	88,950	100,150	2,936,656	-	3,036,806	4,809,919	8,167,723	
Indiana-----	1,400	1,800	3,200	283,674	-	283,674	383,357	611,528	11,200	88,950	100,150	2,936,656	-	3,036,806	4,809,919	8,167,723	
Iowa-----	16,692	7,805	24,497	174,760	-	174,760	232,440	449,321	148,266	46,303	194,569	1,509,448	-	1,704,017	2,085,078	3,789,095	
Kansas-----	16,653	5,468	22,121	221,377	-	221,377	232,440	449,321	148,266	46,303	194,569	1,509,448	-	1,704,017	2,085,078	3,789,095	
Kentucky-----	69,849	24,323	94,172	305	-	305	124,356	182,462	585,101	590,872	797,264	2,173,456	-	2,970,720	2,034,792	5,005,514	
Louisiana-----	-	-	-	18,442	-	18,442	71,292	92,684	15,536	8,064	23,600	132,745	-	146,345	1,043,632	1,624,078	
Maine-----	1,942	1,008	2,950	104,022	2,305	106,327	193,337	343,477	27,584	6,136	33,720	1,239,536	-	1,245,672	1,578,502	2,852,056	
Maryland-----	3,109	704	3,813	104,577	-	104,577	113,303	217,880	10,560	3,320	14,080	1,661,037	-	1,671,617	1,779,088	3,450,706	
Massachusetts-----	1,320	440	1,760	200,185	597	200,782	647,921	850,463	10,560	3,320	14,080	1,661,037	-	1,671,617	1,779,088	3,450,706	
Michigan-----	-	-	-	75,444	-	75,444	202,226	277,670	-	-	-	655,649	-	655,649	1,758,328	2,413,977	
Minnesota-----	-	-	-	6,769	-	6,769	21,562	28,331	-	-	-	36,759	-	36,759	173,018	229,777	
Mississippi-----	103,456	32,651	136,107	366,272	-	366,272	631,135	1,133,514	830,007	263,231	1,093,238	3,079,681	-	3,152,919	5,105,113	9,278,032	
Missouri-----	-	-	-	57,356	-	57,356	55,236	112,592	15,536	8,064	23,600	132,745	-	147,212	1,015,113	1,162,327	
Montana-----	-	-	-	59,385	-	59,385	47,734	85,990	15,536	8,064	23,600	132,745	-	147,212	1,015,113	1,162,327	
Nebraska-----	-	-	-	38,236	-	38,236	47,734	85,990	15,536	8,064	23,600	132,745	-	147,212	1,015,113	1,162,327	
Nevada-----	-	-	-	12,847	-	12,847	130,937	235,333	-	-	-	1,015,205	-	1,015,205	938,512	1,953,717	
New Hampshire-----	-	-	-	12,847	-	12,847	130,937	235,333	-	-	-	1,015,205	-	1,015,205	938,512	1,953,717	
New Jersey-----	-	-	-	29,545	-	29,545	27,751	57,296	-	-	-	237,333	-	237,333	223,231	460,564	
New Mexico-----	3,106	726	3,832	271,707	-	271,707	546,148	821,687	24,846	5,808	30,654	2,225,538	-	2,250,384	4,422,986	6,679,178	
New York-----	-	-	-	272,422	-	272,422	205,263	477,687	-	-	-	2,347,291	-	2,347,291	1,723,334	4,070,625	
North Carolina-----	-	-	-	710	-	710	225	225	-	-	-	5,678	-	5,678	1,784	7,462	
North Dakota-----	-	-	-	389,707	-	389,707	938,119	1,390,434	296,095	44,767	340,862	3,213,333	-	3,554,191	7,707,737	11,261,932	
Ohio-----	5,922	2,824	8,746	178,121	-	178,121	190,958	377,825	48,912	24,384	73,296	1,476,522	-	1,549,818	1,563,273	3,113,091	
Oklahoma-----	1,162	395	1,557	196,791	-	196,791	320,295	318,663	9,295	3,160	12,455	1,625,879	-	1,638,334	966,738	2,605,072	
Oregon-----	72,708	17,986	90,694	620,856	-	620,856	1,361,713	2,073,263	594,344	156,015	750,359	5,221,305	-	5,971,664	11,160,697	17,132,361	
Pennsylvania-----	-	-	-	3,029	-	3,029	8,475	11,504	-	-	-	24,280	-	24,280	67,800	92,080	
Rhode Island-----	-	-	-	78,478	-	78,478	150,293	228,771	-	-	-	701,133	-	701,133	1,262,964	1,964,097	
South Carolina-----	-	-	-	281,954	-	281,954	434,013	726,341	-	-	-	462,428	-	462,428	697,932	1,160,360	
South Dakota-----	6,020	4,354	10,374	28,982	-	28,982	293,954	404,422	53,207	41,723	94,930	2,427,225	-	2,522,155	3,628,353	6,150,508	
Texas-----	1,850	270	2,120	350,605	34,782	385,387	906,636	1,294,143	16,650	2,430	19,080	3,117,272	-	3,136,702	7,550,611	11,104,348	
Tennessee-----	780	260	1,040	29,227	-	29,227	62,315	92,382	6,240	2,080	8,320	236,663	-	244,983	498,385	743,368	
Utah-----	20,430	5,084	25,514	144,378	-	144,378	139,521	309,413	163,440	40,672	204,112	1,160,520	-	1,364,632	1,137,249	2,501,881	
Vermont-----	19,763	4,486	24,249	380,022	-	380,022	524,405	928,676	158,106	35,887	193,993	3,222,065	-	3,416,058	4,366,320	7,782,378	
Virginia-----	59	-	59	121,937	-	121,937	88,904	210,901	464	-	464	976,659	-	977,123	711,379	1,688,502	
Washington-----	27,350	8,013	35,363	114,938	-	114,938	218,536	326,121	218,536	66,104	284,640	976,659	-	1,258,394	1,422,884	2,661,278	
West Virginia-----	246	246	492	199,655	-	199,655	385,832	583,832	59,520	1,968	61,488	1,753,734	-	1,757,696	1,563,363	3,301,059	
Wisconsin-----	-	-	-	14,671	-	14,671	33,461	47,012	59,520	11,520	71,040	127,239	-	198,279	275,426	473,705	
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total-----	521,922	150,622	672,544	7,672,775	133,055	8,005,830	13,647,557	22,125,931	4,289,173	1,264,592	5,553,765	65,209,445	1,348,008	72,111,218	112,503,948	184,615,166	

TABLE B-26. - Injury experience and worktime data on offeworkers at stone quarries and mills in the United States, by kind of stone, 1971

Kind of stone	Injuries			Frequency rates per million man-hours			Severity rates per million man-hours			Average men working daily	Average days active	Man-days worked	Man-hours worked
	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total				
Cement 1/-----	-	1	1	-	0.21	0.21	-	2	2	2,252	264	593,545	4,756,427
Granite-----	-	-	-	-	-	-	-	-	-	556	253	140,652	1,180,956
Limestone-----	-	3	3	-	.47	.47	-	23	23	3,016	254	766,084	6,329,651
Limestone (chief product, lime)-----	-	1	1	-	.63	.63	-	1	1	767	258	197,996	1,595,458
Marble-----	-	-	-	-	-	-	-	-	-	178	253	45,064	362,114
Sandstone-----	-	3	3	-	3.38	3.38	-	34	34	441	249	109,679	886,764
Slate-----	-	-	-	-	-	-	-	-	-	53	249	13,194	103,378
Traprock-----	-	2	2	-	3.32	3.32	-	22	22	320	233	74,456	602,188
Miscellaneous stone-----	-	-	-	-	-	-	-	-	-	131	240	31,388	254,198
Total or average-----	-	10	10	-	.62	.62	-	12	12	7,714	256	1,972,058	16,071,134

1/ Includes limestone or other stones used in manufacturing cement.

TABLE B-27. - Injury experience and worktime data on offeworkers at stone quarries and mills in the United States, by State, 1971

State	Injuries			Frequency rates per million man-hours			Severity rates per million man-hours			Average men working	Average days active	Man-days worked	Man-hours worked
	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total	Fatal	Nonfatal	Total				
Alabama-----	-	-	-	-	-	-	-	-	-	286	259	74,097	593,274
Alaska-----	-	-	-	-	-	-	-	-	-	1	240	240	1,920
Arizona-----	-	-	-	-	-	-	-	-	-	32	298	9,526	76,612
Arkansas-----	-	-	-	-	-	-	-	-	-	117	262	30,675	247,846
California-----	-	-	-	-	-	-	-	-	-	465	258	119,747	962,102
Colorado-----	-	1	1	-	8.10	8.10	-	105	105	62	251	15,563	123,533
Connecticut-----	-	1	1	-	12.13	12.13	-	12	12	41	255	10,465	82,410
Florida-----	-	1	1	-	2.73	2.73	-	14	14	174	259	44,986	368,021
Georgia-----	-	1	1	-	2.13	2.13	-	19	19	223	261	58,094	459,973
Hawaii-----	-	-	-	-	-	-	-	-	-	46	249	11,469	91,878
Idaho-----	-	-	-	-	-	-	-	-	-	10	232	2,316	18,145
Illinois-----	-	1	1	-	1.17	1.17	-	8	8	387	270	104,647	854,369
Indiana-----	-	1	1	-	1.30	1.30	-	139	139	355	262	92,907	770,293
Iowa-----	-	-	-	-	-	-	-	-	-	206	230	47,316	395,991
Kansas-----	-	-	-	-	-	-	-	-	-	134	260	34,867	287,484
Kentucky-----	-	1	1	-	1.75	1.75	-	60	60	261	266	69,533	570,744
Louisiana-----	-	-	-	-	-	-	-	-	-	47	257	12,067	96,533
Maine-----	-	-	-	-	-	-	-	-	-	34	257	8,736	71,052
Maryland-----	-	-	-	-	-	-	-	-	-	121	260	31,489	257,905
Massachusetts-----	-	-	-	-	-	-	-	-	-	119	231	27,532	219,403
Michigan-----	-	-	-	-	-	-	-	-	-	351	276	96,802	776,222
Minnesota-----	-	-	-	-	-	-	-	-	-	154	243	37,362	315,411
Mississippi-----	-	-	-	-	-	-	-	-	-	6	236	1,414	11,318
Missouri-----	-	1	1	-	.93	.93	-	11	11	514	258	132,544	1,072,070
Montana-----	-	-	-	-	-	-	-	-	-	25	235	5,884	47,072
Nebraska-----	-	-	-	-	-	-	-	-	-	39	249	9,694	83,198
Nevada-----	-	-	-	-	-	-	-	-	-	19	261	4,961	39,688
New Hampshire-----	-	-	-	-	-	-	-	-	-	32	257	8,211	66,579
New Jersey-----	-	1	1	-	5.03	5.03	-	5	5	116	204	23,711	198,758
New Mexico-----	-	-	-	-	-	-	-	-	-	15	253	3,795	30,360
New York-----	-	-	-	-	-	-	-	-	-	277	251	69,622	562,269
North Carolina-----	-	-	-	-	-	-	-	-	-	114	247	28,103	239,953
Ohio-----	-	1	1	-	.73	.73	-	7	7	675	253	170,614	1,376,835
Oklahoma-----	-	-	-	-	-	-	-	-	-	66	259	17,080	141,451
Oregon-----	-	-	-	-	-	-	-	-	-	43	237	10,198	80,730
Pennsylvania-----	-	-	-	-	-	-	-	-	-	686	256	175,342	1,426,929
Rhode Island-----	-	-	-	-	-	-	-	-	-	5	215	1,075	8,050
South Carolina-----	-	-	-	-	-	-	-	-	-	48	259	12,418	109,271
South Dakota-----	-	-	-	-	-	-	-	-	-	43	250	10,765	90,222
Tennessee-----	-	-	-	-	-	-	-	-	-	192	250	47,996	405,493
Texas-----	-	-	-	-	-	-	-	-	-	419	257	107,542	885,533
Utah-----	-	-	-	-	-	-	-	-	-	20	233	4,667	36,602
Vermont-----	-	-	-	-	-	-	-	-	-	23	254	5,851	46,301
Virginia-----	-	-	-	-	-	-	-	-	-	366	259	94,646	774,251
Washington-----	-	-	-	-	-	-	-	-	-	83	276	22,917	182,715
West Virginia-----	-	-	-	-	-	-	-	-	-	102	253	25,792	208,427
Wisconsin-----	-	-	-	-	-	-	-	-	-	146	229	33,499	270,996
Wyoming-----	-	-	-	-	-	-	-	-	-	14	234	3,281	26,942
Total or average-----	-	10	10	-	.62	.62	-	12	12	7,714	256	1,972,058	16,071,134

APPENDIX C. --QUESTIONNAIRE USED

Form 6-1431-A
(October 1968)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINESBudget Bureau No. 42-R0090.
Approval expires August 1971.INJURIES AND EMPLOYMENT
IN QUARRIES AND MILLS(Includes reporting of all dimension, crushed or broken
stone operations, and cement and lime plants)

(Please correct if name or address has changed.)

Section 13 of the Federal Metal and Nonmetallic Mine Safety Act (30 U.S.C. 721-740) requires the full and accurate reporting of the information requested on this form concerning accidents, injuries, and occupational diseases, and related data at your mineral extractive and milling or processing operation.

I. EMPLOYMENT AND INJURIES

1. EMPLOYMENT.—Report data for all men engaged in production, exploration, development, overburden removal, stockpile, construction, maintenance, and repair work—including supervisory and technical personnel at the operation. Include proprietors and firm members (owners, partners, or operators) performing manual labor or supervisory duties. Report separate data on all officeworkers at the operation.

DEPARTMENT	(a) Average Number of Men Working on Active Days	(b) Days Active During Year	(c) Total Man-Shifts Worked During Year	(d) Length of Shift (Hours)	(e) Total Man-Hours Worked During Year	(f) Summary of Work Injuries		(g) Production* (short tons)
						Fatal	Nonfatal	
AT UNDERGROUND QUARRY OR MINE 1								
(01) Underground								
(02) Surface shops, yards, etc., at underground quarry or mine								
AT OPEN QUARRY								
(03) Open quarry 2								
OTHER SURFACE MINING								
(06) Dredging, processing, maintenance, etc., aboard or ashore								
AT MILL								
(30) Processing plant 3								
AT OFFICE								
(00) Officeworkers 4								

1 Include all underground operations up to but excluding primary (coarse) crusher. In conjunction with cement plants only, include information on captive underground clay and shale operations.

2 Include all open quarry and overburden removal operations up to but excluding the primary coarse crusher. In conjunction with cement plants only, include information on captive clay and shale pits. Include shops, yards, etc., that are attached and only serve the open quarry.

3 Include all processing plant operations (crusher, cement mill, limekiln, rock dressing, etc.) beginning with the primary crusher through to storage or transportation of product from processing plant. Include all surface shops, yards, or other auxiliary work that service the processing plant or that are not specifically attached to the open or underground quarry.

4 Include all officeworkers at the quarry and processing plant.

* Include production of both crushed and broken, and dimension stone, and shell, marl, or other stone material extracted. Convert all units of measure to short tons, or specify units reported: _____

2. How many quarries _____ (number) and mills _____ (number) are included in the employment data? Give name(s) and location(s):

QUARRY NAME	COUNTY	STATE	MILL NAME	COUNTY	STATE
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

3. INJURIES. If you had NO DISABLING WORK INJURIES** during the year, check block ☐; otherwise, please complete column f, Summary of Work Injuries, above, also list them on the reverse side of this page.

**A DISABLING WORK INJURY is one which occurs in the course of and arises out of employment, irrespective of whether the injury is compensable and whether or not your establishment was operating on the days following the date of injury. The term "injury" includes occupational diseases. A disabling work injury is one which results in death or permanent impairment or which temporarily disables the worker for 1 full day or more after the day of injury (USAS Z16.1).

4. Please answer the questions which apply to your operation.

(a) Kind of rock quarried _____

(b) Type of processing operation(s):

(1) Crusher ☐; (2) Sawing and finishing plant ☐; (3) Granules and flour plant ☐; (4) Cement mill ☐; (5) Limekiln ☐

5. If any new quarries or mines were operated in your vicinity during the past year, give names and addresses of the operators:

Signature	Title	Date
_____	_____	_____

(OVER)

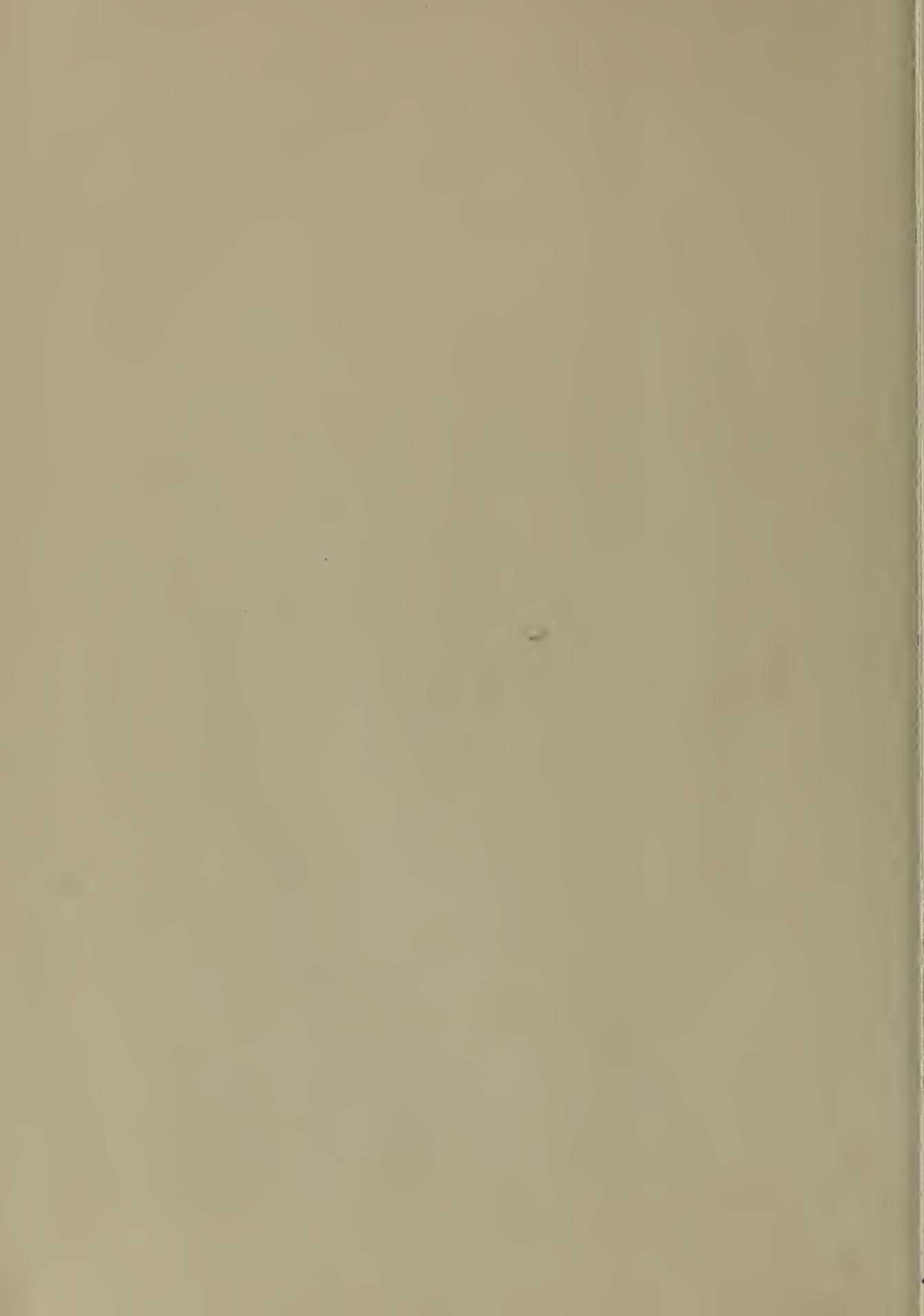
INJURY DATA

List below every disabling work injury (see definition on front side of form) which occurred during the year to all classes of your employees included in the employment data. Write in a description of the accident and then fill in blocks above the description that are applicable to the accident.

CASE NO.	DEPARTMENT (List department in which accident occurred)	SOURCE OF INJURY (Object, substance, exposure, or bodily motion which directly caused the injury, such as timber, chemicals, welder's flash, or lifting, respectively)	EXTENT OF DISABILITY (Please indicate the extent of disability by an entry in one of the columns below)			PART OF BODY INJURED (Be specific, such as great toe, left foot, index finger, right hand, etc.)	NATURE OF INJURY (Amputation, bruise, strain, dermatitis, etc.)
			Death (Enter check mark)	Permanent-total disability ^a	Permanent-partial disability (Please indicate percent loss and part of body affected) ^a		
Example	Crusher	Rock				22	Broken bone
Describe the accident: Employee was barring down in hopper to free hung feed to crusher. Hang up moved suddenly and a large rock glanced off the bar and hit employee on left shoulder fracturing collar bone.							
1.							
Describe the accident:							
2.							
Describe the accident:							
3.							
Describe the accident:							
4.							
Describe the accident:							
5.							
Describe the accident:							
6.							
Describe the accident:							
7.							
Describe the accident:							
8.							
Describe the accident:							

^a If more convenient, enter the time charge for each injury as established by the American Standards Association, in accordance with instructions from USAS Z16.1.

BD - 3.9.







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